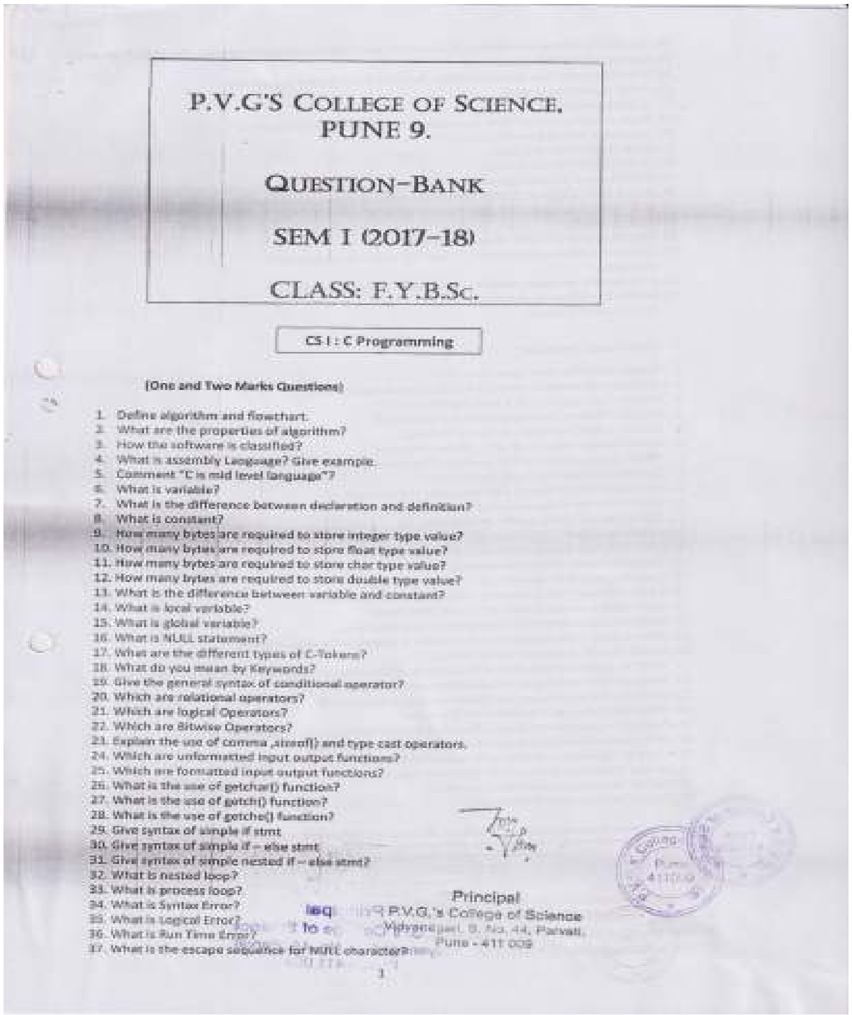
Best Practice1:

Student Centric Internal Examination Planning and Evaluation

Question Banks given to Students for preparation of Internal and Final University Examination (F.Y, S.Y, and T.Y):

F.Y. Question Bank Sem-I:



P.V.G'S COLLEGE OF SCIENCE,
PUNE 9.

QUESTION–BANK

SEM I (2017–18)

CLASS: F.Y.B.Sc.

CS I : C Programming

(One and Two Marks Questions)

1. Define algorithm and flowchart.
2. What are the properties of algorithm?
3. How the software is classified?
4. What is assembly Language? Give example.
5. Comment "C is mid level language"?
6. What is variable?
7. What is the difference between declaration and definition?
8. What is constant?
9. How many bytes are required to store integer type value?
10. How many bytes are required to store float type value?
11. How many bytes are required to store char type value?
12. How many bytes are required to store double type value?
13. What is the difference between variable and constant?
14. What is local variable?
15. What is global variable?
16. What is NULL statement?
17. What are the different types of C-Tokens?
18. What do you mean by Keywords?
19. Give the general syntax of conditional operator?
20. Which are relational operators?
21. Which are logical Operators?
22. Which are Bitwise Operators?
23. Explain the use of comma ,sizeof() and type cast operators.
24. Which are unformatted input output functions?
25. Which are formatted input output functions?
26. What is the use of getchar() function?
27. What is the use of getch() function?
28. What is the use of getche() function?
29. Give syntax of simple if stmt
30. Give syntax of simple if – else stmt
31. Give syntax of simple nested if – else stmt?
32. What is nested loop?
33. What is process loop?
34. What is Syntax Error?
35. What is Logical Error?
36. What is Run Time Error?
37. What is the escape sequence for NULL character?

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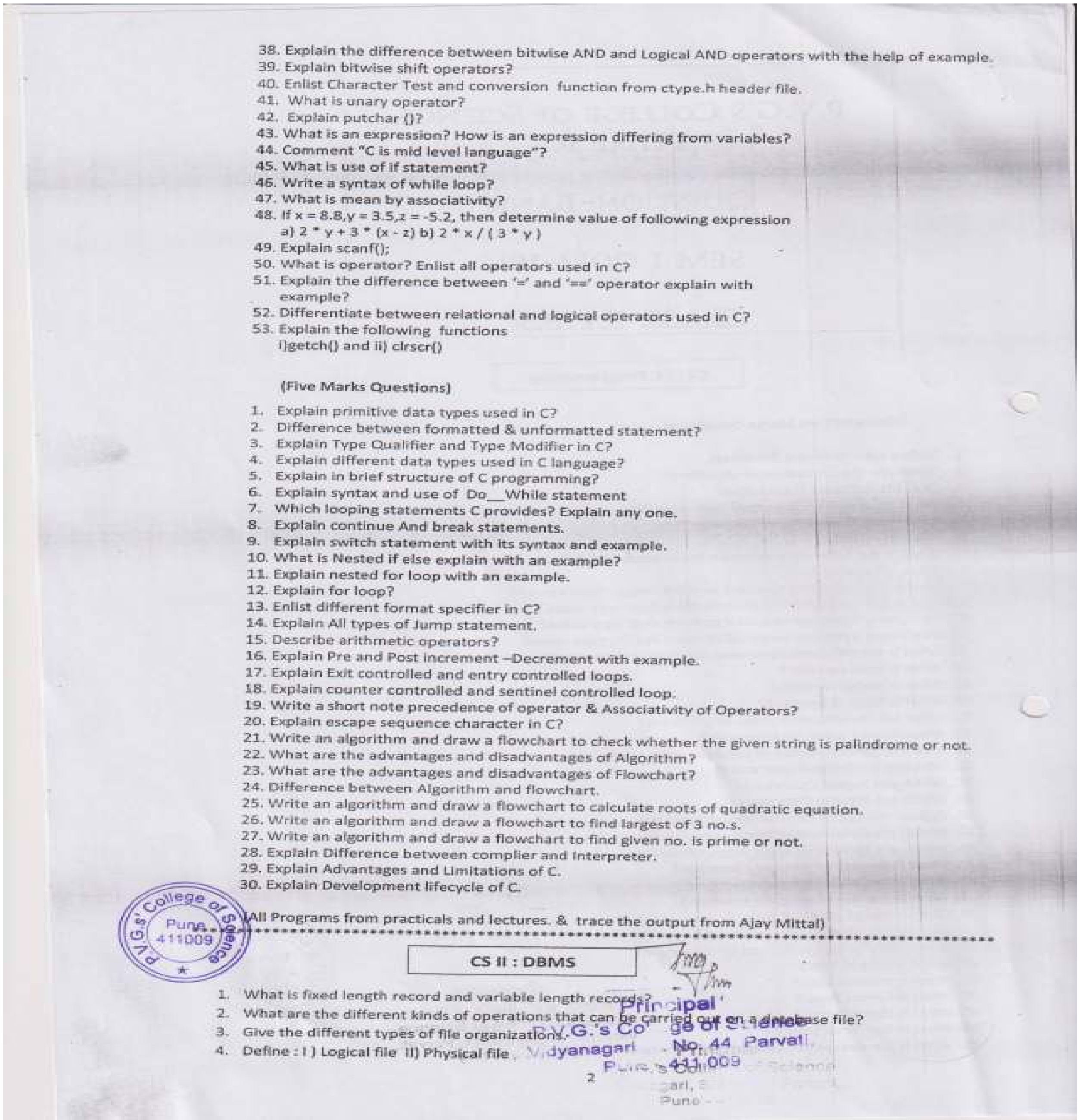

38. Explain the difference between bitwise AND and Logical AND operators with the help of example.
39. Explain bitwise shift operators?
40. Enlist Character Test and conversion function from ctype.h header file.
41. What is unary operator?
42. Explain putchar ()?
43. What is an expression? How is an expression differing from variables?
44. Comment "C is mid level language"?
45. What is use of if statement?
46. Write a syntax of while loop?
47. What is mean by associativity?
48. If x = 8.8,y = 3.5,z = -5.2, then determine value of following expression
    a) 2 * y + 3 * (x - z) b) 2 * x / (3 * y)
49. Explain scanf();
50. What is operator? Enlist all operators used in C?
51. Explain the difference between '=' and '==' operator explain with example?
52. Differentiate between relational and logical operators used in C?
53. Explain the following functions
    i)getch() and ii) clrscr()

(Five Marks Questions)

1. Explain primitive data types used in C?
2. Difference between formatted & unformatted statement?
3. Explain Type Qualifier and Type Modifier in C?
4. Explain different data types used in C language?
5. Explain in brief structure of C programming?
6. Explain syntax and use of Do__While statement
7. Which looping statements C provides? Explain any one.
8. Explain continue And break statements.
9. Explain switch statement with its syntax and example.
10. What is Nested if else explain with an example?
11. Explain nested for loop with an example.
12. Explain for loop?
13. Enlist different format specifier in C?
14. Explain All types of Jump statement.
15. Describe arithmetic operators?
16. Explain Pre and Post increment –Decrement with example.
17. Explain Exit controlled and entry controlled loops.
18. Explain counter controlled and sentinel controlled loop.
19. Write a short note precedence of operator & Associativity of Operators?
20. Explain escape sequence character in C?
21. Write an algorithm and draw a flowchart to check whether the given string is palindrome or not.
22. What are the advantages and disadvantages of Algorithm?
23. What are the advantages and disadvantages of Flowchart?
24. Difference between Algorithm and flowchart.
25. Write an algorithm and draw a flowchart to calculate roots of quadratic equation.
26. Write an algorithm and draw a flowchart to find largest of 3 no.s.
27. Write an algorithm and draw a flowchart to find given no. is prime or not.
28. Explain Difference between complier and Interpreter.
29. Explain Advantages and Limitations of C.
30. Explain Development lifecycle of C.

(All Programs from practicals and lectures. & trace the output from Ajay Mittal)

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CS II : DBMS

1. What is fixed length record and variable length records?
2. What are the different kinds of operations that can be carried out on a database file?
3. Give the different types of file organizations.
4. Define : I) Logical file II) Physical file

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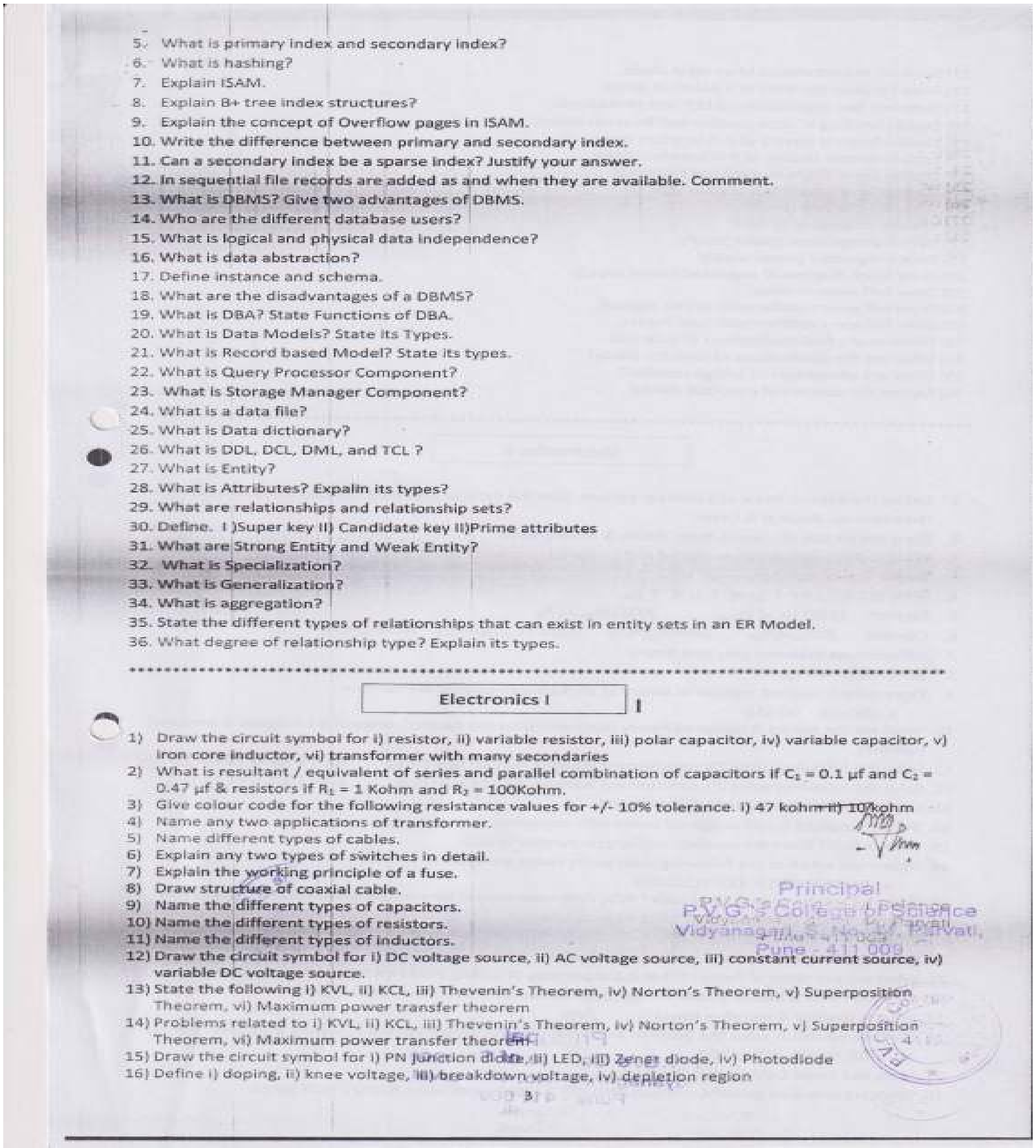

5. What is primary index and secondary index?
6. What is hashing?
7. Explain ISAM.
8. Explain B+ tree index structures?
9. Explain the concept of Overflow pages in ISAM.
10. Write the difference between primary and secondary index.
11. Can a secondary index be a sparse index? Justify your answer.
12. In sequential file records are added as and when they are available. Comment.
13. What is DBMS? Give two advantages of DBMS.
14. Who are the different database users?
15. What is logical and physical data independence?
16. What is data abstraction?
17. Define instance and schema.
18. What are the disadvantages of a DBMS?
19. What is DBA? State Functions of DBA.
20. What is Data Models? State its Types.
21. What is Record based Model? State its types.
22. What is Query Processor Component?
23. What is Storage Manager Component?
24. What is a data file?
25. What is Data dictionary?
26. What is DDL, DCL, DML, and TCL ?
27. What is Entity?
28. What is Attributes? Expalin its types?
29. What are relationships and relationship sets?
30. Define. I)Super key II) Candidate key II)Prime attributes
31. What are Strong Entity and Weak Entity?
32. What is Specialization?
33. What is Generalization?
34. What is aggregation?
35. State the different types of relationships that can exist in entity sets in an ER Model.
36. What degree of relationship type? Explain its types.

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Electronics I

1) Draw the circuit symbol for i) resistor, ii) variable resistor, iii) polar capacitor, iv) variable capacitor, v) iron core inductor, vi) transformer with many secondaries
2) What is resultant / equivalent of series and parallel combination of capacitors if $C_1 = 0.1$ µf and $C_2 = 0.47$ µf & resistors if $R_1 = 1$ Kohm and $R_2 = 100$Kohm.
3) Give colour code for the following resistance values for +/- 10% tolerance. i) 47 kohm ~~ii) 10~~kohm
4) Name any two applications of transformer.
5) Name different types of cables.
6) Explain any two types of switches in detail.
7) Explain the working principle of a fuse.
8) Draw structure of coaxial cable.
9) Name the different types of capacitors.
10) Name the different types of resistors.
11) Name the different types of inductors.
12) Draw the circuit symbol for i) DC voltage source, ii) AC voltage source, iii) constant current source, iv) variable DC voltage source.
13) State the following i) KVL, ii) KCL, iii) Thevenin's Theorem, iv) Norton's Theorem, v) Superposition Theorem, vi) Maximum power transfer theorem
14) Problems related to i) KVL, ii) KCL, iii) Thevenin's Theorem, iv) Norton's Theorem, v) Superposition Theorem, vi) Maximum power transfer theorem
15) Draw the circuit symbol for i) PN junction diode, ii) LED, iii) Zener diode, iv) Photodiode
16) Define i) doping, ii) knee voltage, iii) breakdown voltage, iv) depletion region

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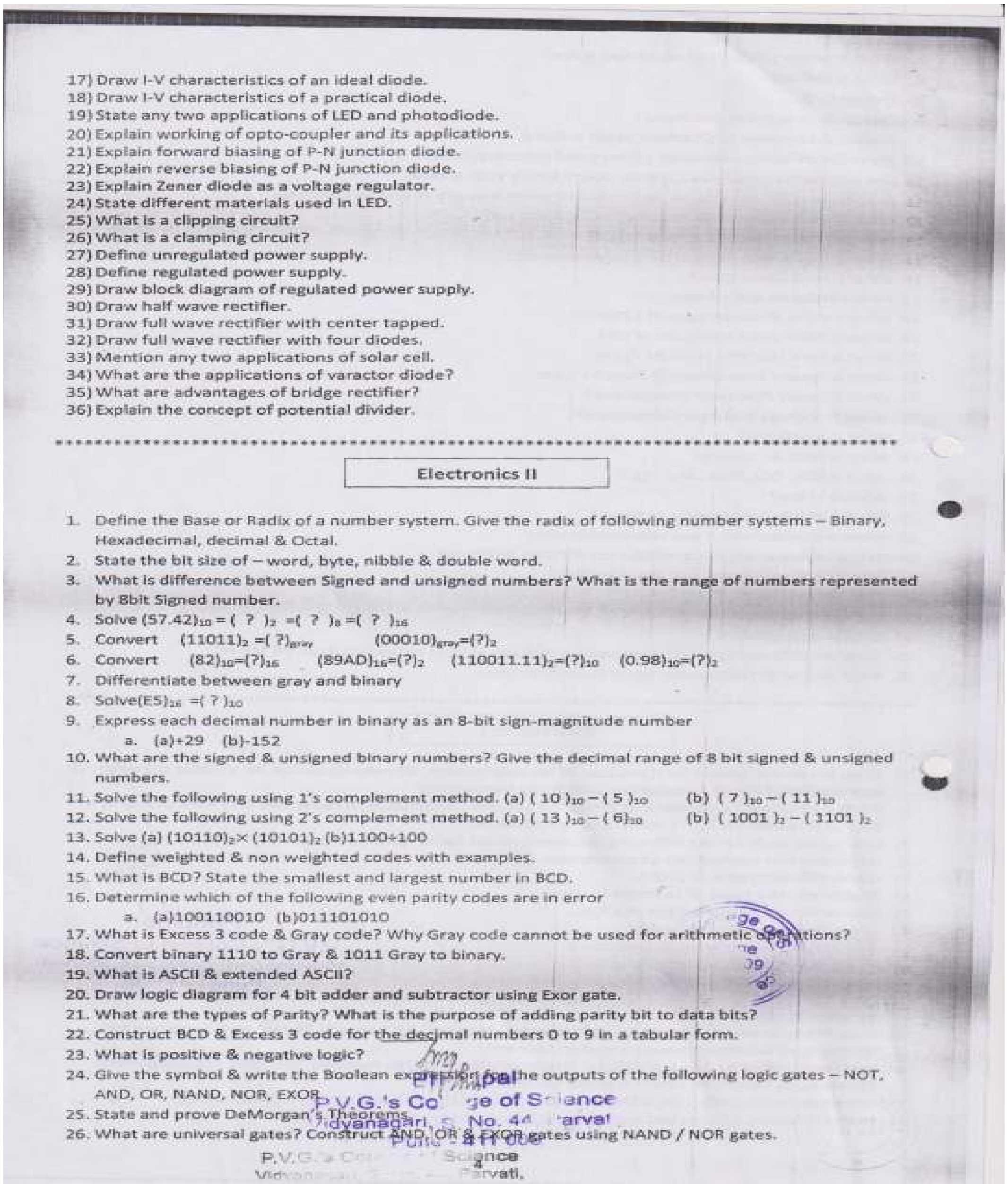

17) Draw I-V characteristics of an ideal diode.
18) Draw I-V characteristics of a practical diode.
19) State any two applications of LED and photodiode.
20) Explain working of opto-coupler and its applications.
21) Explain forward biasing of P-N junction diode.
22) Explain reverse biasing of P-N junction diode.
23) Explain Zener diode as a voltage regulator.
24) State different materials used in LED.
25) What is a clipping circuit?
26) What is a clamping circuit?
27) Define unregulated power supply.
28) Define regulated power supply.
29) Draw block diagram of regulated power supply.
30) Draw half wave rectifier.
31) Draw full wave rectifier with center tapped.
32) Draw full wave rectifier with four diodes.
33) Mention any two applications of solar cell.
34) What are the applications of varactor diode?
35) What are advantages of bridge rectifier?
36) Explain the concept of potential divider.

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Electronics II

1. Define the Base or Radix of a number system. Give the radix of following number systems – Binary, Hexadecimal, decimal & Octal.
2. State the bit size of – word, byte, nibble & double word.
3. What is difference between Signed and unsigned numbers? What is the range of numbers represented by 8bit Signed number.
4. Solve $(57.42)_{10} = (\ ?\ )_2 = (\ ?\ )_8 = (\ ?\ )_{16}$
5. Convert $(11011)_2 = (?)_{gray}$ $(00010)_{gray} = (?)_2$
6. Convert $(82)_{10} = (?)_{16}$ $(89AD)_{16} = (?)_2$ $(110011.11)_2 = (?)_{10}$ $(0.98)_{10} = (?)_2$
7. Differentiate between gray and binary
8. Solve$(E5)_{16} = (\ ?\ )_{10}$
9. Express each decimal number in binary as an 8-bit sign-magnitude number
   a. (a)+29 (b)-152
10. What are the signed & unsigned binary numbers? Give the decimal range of 8 bit signed & unsigned numbers.
11. Solve the following using 1's complement method. (a) $(\ 10\ )_{10} - (\ 5\ )_{10}$ (b) $(\ 7\ )_{10} - (\ 11\ )_{10}$
12. Solve the following using 2's complement method. (a) $(\ 13\ )_{10} - (\ 6)_{10}$ (b) $(\ 1001\ )_2 - (\ 1101\ )_2$
13. Solve (a) $(10110)_2 \times (10101)_2$ (b)1100÷100
14. Define weighted & non weighted codes with examples.
15. What is BCD? State the smallest and largest number in BCD.
16. Determine which of the following even parity codes are in error
    a. (a)100110010 (b)011101010
17. What is Excess 3 code & Gray code? Why Gray code cannot be used for arithmetic operations?
18. Convert binary 1110 to Gray & 1011 Gray to binary.
19. What is ASCII & extended ASCII?
20. Draw logic diagram for 4 bit adder and subtractor using Exor gate.
21. What are the types of Parity? What is the purpose of adding parity bit to data bits?
22. Construct BCD & Excess 3 code for the decimal numbers 0 to 9 in a tabular form.
23. What is positive & negative logic?
24. Give the symbol & write the Boolean expression for the outputs of the following logic gates – NOT, AND, OR, NAND, NOR, EXOR
25. State and prove DeMorgan's Theorems.
26. What are universal gates? Construct AND, OR & EXOR gates using NAND / NOR gates.

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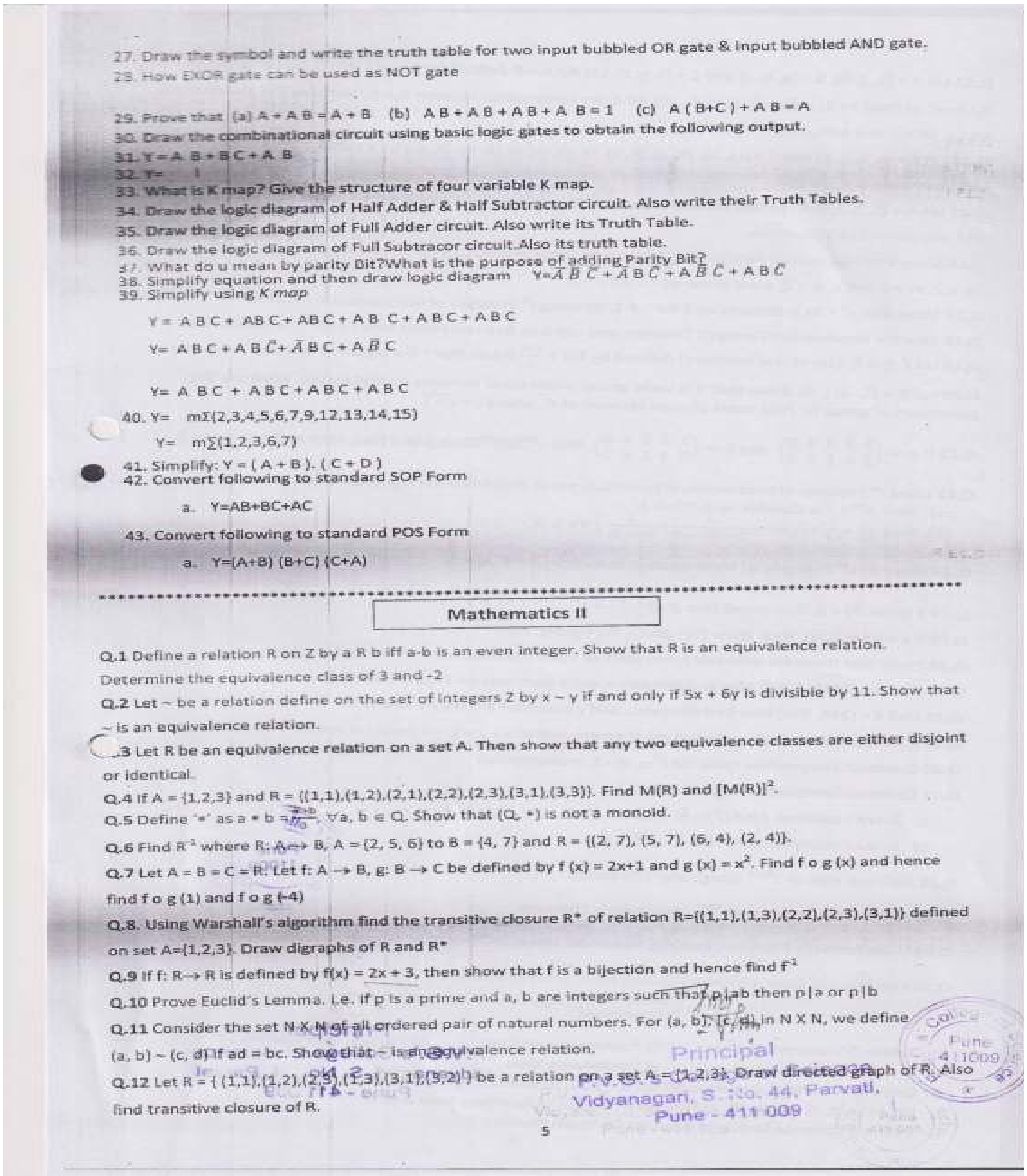

27. Draw the symbol and write the truth table for two input bubbled OR gate & input bubbled AND gate.
28. How EXOR gate can be used as NOT gate

29. Prove that (a) A + A B = A + B (b) A B + A B + A B + A B = 1 (c) A (B+C) + A B = A
30. Draw the combinational circuit using basic logic gates to obtain the following output.
31. Y = A B + B C + A B
32. Y= 1
33. What is K map? Give the structure of four variable K map.
34. Draw the logic diagram of Half Adder & Half Subtractor circuit. Also write their Truth Tables.
35. Draw the logic diagram of Full Adder circuit. Also write its Truth Table.
36. Draw the logic diagram of Full Subtracor circuit.Also its truth table.
37. What do u mean by parity Bit?What is the purpose of adding Parity Bit?
38. Simplify equation and then draw logic diagram $Y=\bar{A}\,\bar{B}\,\bar{C}+\bar{A}\,B\,\bar{C}+A\,\bar{B}\,C+A\,B\,\bar{C}$
39. Simplify using *K map*

Y = A B C + AB C + AB C + A B C + A B C + A B C

$Y= A\,B\,C+A\,B\,\bar{C}+\bar{A}\,B\,C+A\,\bar{B}\,C$

Y= A B C + A B C + A B C + A B C

40. Y= mΣ(2,3,4,5,6,7,9,12,13,14,15)

Y= mΣ(1,2,3,6,7)

41. Simplify: Y = (A + B). (C + D)
42. Convert following to standard SOP Form

a. Y=AB+BC+AC

43. Convert following to standard POS Form

a. Y=(A+B) (B+C) (C+A)

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Mathematics II

Q.1 Define a relation R on Z by a R b iff a-b is an even integer. Show that R is an equivalence relation. Determine the equivalence class of 3 and -2

Q.2 Let ~ be a relation define on the set of integers Z by x ~ y if and only if 5x + 6y is divisible by 11. Show that ~ is an equivalence relation.

Q.3 Let R be an equivalence relation on a set A. Then show that any two equivalence classes are either disjoint or identical.

Q.4 If A = {1,2,3} and R = {(1,1),(1,2),(2,1),(2,2),(2,3),(3,1),(3,3)}. Find M(R) and $[M(R)]^2$.

Q.5 Define '*' as a * b = [illegible], ∀a, b ∈ Q. Show that (Q, *) is not a monoid.

Q.6 Find R^{-1} where R: A→ B, A = {2, 5, 6} to B = {4, 7} and R = {(2, 7), (5, 7), (6, 4), (2, 4)}.

Q.7 Let A = B = C = R. Let f: A → B, g: B → C be defined by f (x) = 2x+1 and g (x) = x^2. Find f o g (x) and hence find f o g (1) and f o g (-4)

Q.8. Using Warshall's algorithm find the transitive closure R* of relation R={(1,1),(1,3),(2,2),(2,3),(3,1)} defined on set A={1,2,3}. Draw digraphs of R and R*

Q.9 If f: R→ R is defined by f(x) = 2x + 3, then show that f is a bijection and hence find f^{-1}

Q.10 Prove Euclid's Lemma. i.e. If p is a prime and a, b are integers such that p|ab then p|a or p|b

Q.11 Consider the set N X N of all ordered pair of natural numbers. For (a, b), (c, d) in N X N, we define (a, b) ~ (c, d) if ad = bc. Show that ~ is an equivalence relation.

Q.12 Let R = { (1,1),(1,2),(2,3),(1,3),(3,1),(3,2) } be a relation on a set A = {1,2,3}. Draw directed graph of R. Also find transitive closure of R.

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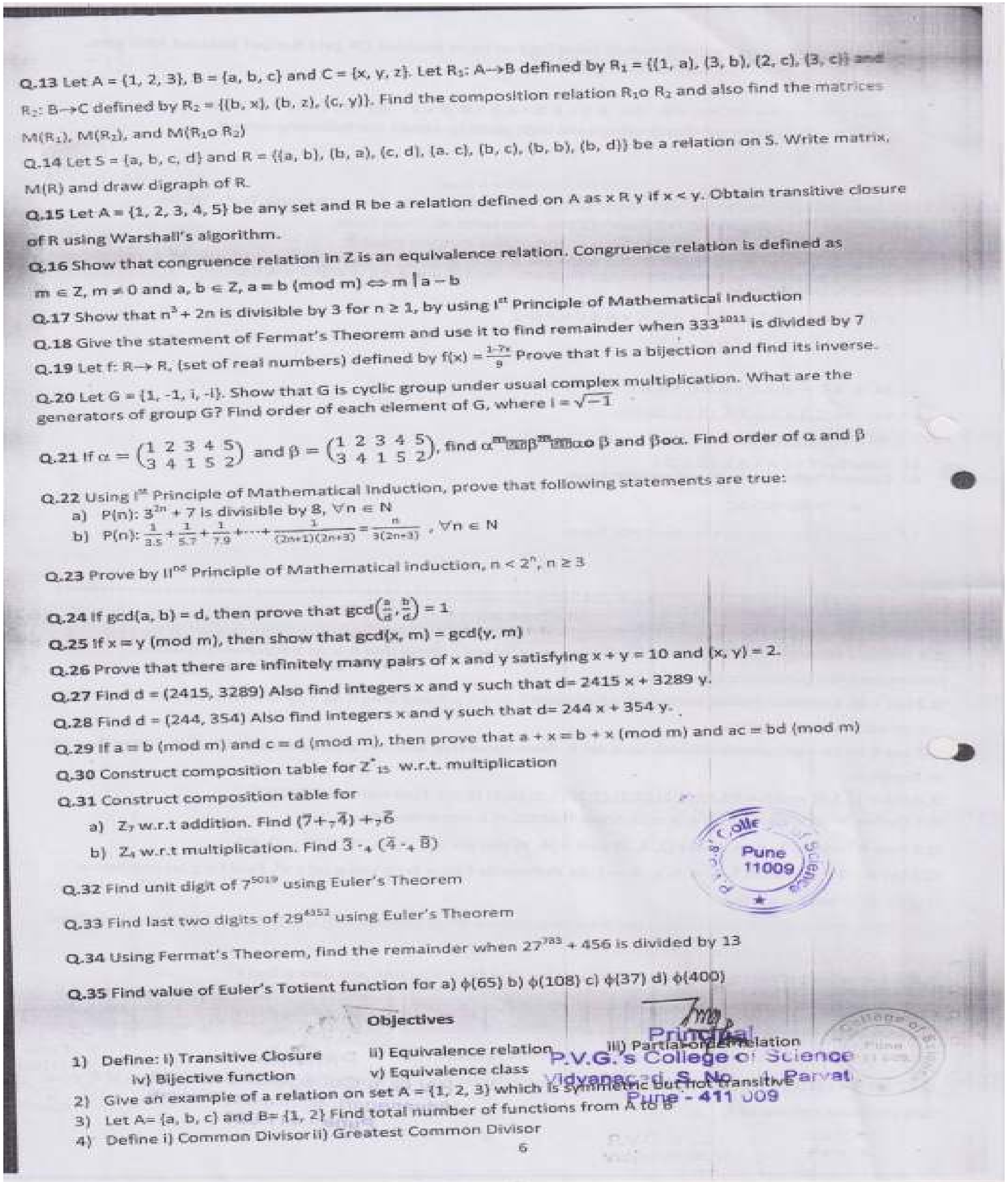

Q.13 Let A = {1, 2, 3}, B = {a, b, c} and C = {x, y, z}. Let R_1: A→B defined by R_1 = {(1, a), (3, b), (2, c), (3, c)} and R_2: B→C defined by R_2 = {(b, x), (b, z), (c, y)}. Find the composition relation $R_1 o R_2$ and also find the matrices $M(R_1)$, $M(R_2)$, and $M(R_1 o R_2)$

Q.14 Let S = {a, b, c, d} and R = {(a, b), (b, a), (c, d), (a. c), (b, c), (b, b), (b, d)} be a relation on S. Write matrix, M(R) and draw digraph of R.

Q.15 Let A = {1, 2, 3, 4, 5} be any set and R be a relation defined on A as x R y if x < y. Obtain transitive closure of R using Warshall's algorithm.

Q.16 Show that congruence relation in Z is an equivalence relation. Congruence relation is defined as $m \in Z$, $m \neq 0$ and $a, b \in Z$, $a \equiv b \pmod m \Leftrightarrow m \mid a - b$

Q.17 Show that $n^3 + 2n$ is divisible by 3 for $n \geq 1$, by using Ist Principle of Mathematical Induction

Q.18 Give the statement of Fermat's Theorem and use it to find remainder when 333^{1011} is divided by 7

Q.19 Let f: R→ R, (set of real numbers) defined by $f(x) = \frac{1-7x}{9}$ Prove that f is a bijection and find its inverse.

Q.20 Let G = {1, -1, i, -i}. Show that G is cyclic group under usual complex multiplication. What are the generators of group G? Find order of each element of G, where $i = \sqrt{-1}$

Q.21 If $\alpha = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 3 & 4 & 1 & 5 & 2 \end{pmatrix}$ and $\beta = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 3 & 4 & 1 & 5 & 2 \end{pmatrix}$, find α^{m} β^{m} $\alpha o \beta$ and $\beta o \alpha$. Find order of α and β

Q.22 Using Ist Principle of Mathematical Induction, prove that following statements are true:

a) P(n): $3^{2n} + 7$ is divisible by 8, $\forall n \in N$
b) P(n): $\frac{1}{3.5} + \frac{1}{5.7} + \frac{1}{7.9} + \cdots + \frac{1}{(2n+1)(2n+3)} = \frac{n}{3(2n+3)}$, $\forall n \in N$

Q.23 Prove by IInd Principle of Mathematical induction, $n < 2^n$, $n \geq 3$

Q.24 If gcd(a, b) = d, then prove that $\gcd\left(\frac{a}{d}, \frac{b}{d}\right) = 1$

Q.25 If $x \equiv y \pmod m$, then show that gcd(x, m) = gcd(y, m)

Q.26 Prove that there are infinitely many pairs of x and y satisfying x + y = 10 and (x, y) = 2.

Q.27 Find d = (2415, 3289) Also find integers x and y such that d= 2415 x + 3289 y.

Q.28 Find d = (244, 354) Also find integers x and y such that d= 244 x + 354 y.

Q.29 If $a \equiv b \pmod m$ and $c \equiv d \pmod m$, then prove that $a + x \equiv b + x \pmod m$ and $ac \equiv bd \pmod m$

Q.30 Construct composition table for Z^*_{15} w.r.t. multiplication

Q.31 Construct composition table for

a) Z_7 w.r.t addition. Find $(\bar{7} +_7 \bar{4}) +_7 \bar{6}$
b) Z_4 w.r.t multiplication. Find $\bar{3} \cdot_4 (\bar{4} \cdot_4 \bar{8})$

Q.32 Find unit digit of 7^{5019} using Euler's Theorem

Q.33 Find last two digits of 29^{4352} using Euler's Theorem

Q.34 Using Fermat's Theorem, find the remainder when $27^{783} + 456$ is divided by 13

Q.35 Find value of Euler's Totient function for a) ϕ(65) b) ϕ(108) c) ϕ(37) d) ϕ(400)

Objectives

1) Define: i) Transitive Closure ii) Equivalence relation iii) Partial order relation
iv) Bijective function v) Equivalence class
2) Give an example of a relation on set A = {1, 2, 3} which is symmetric but not transitive
3) Let A= {a, b, c} and B= {1, 2} Find total number of functions from A to B
4) Define i) Common Divisor ii) Greatest Common Divisor

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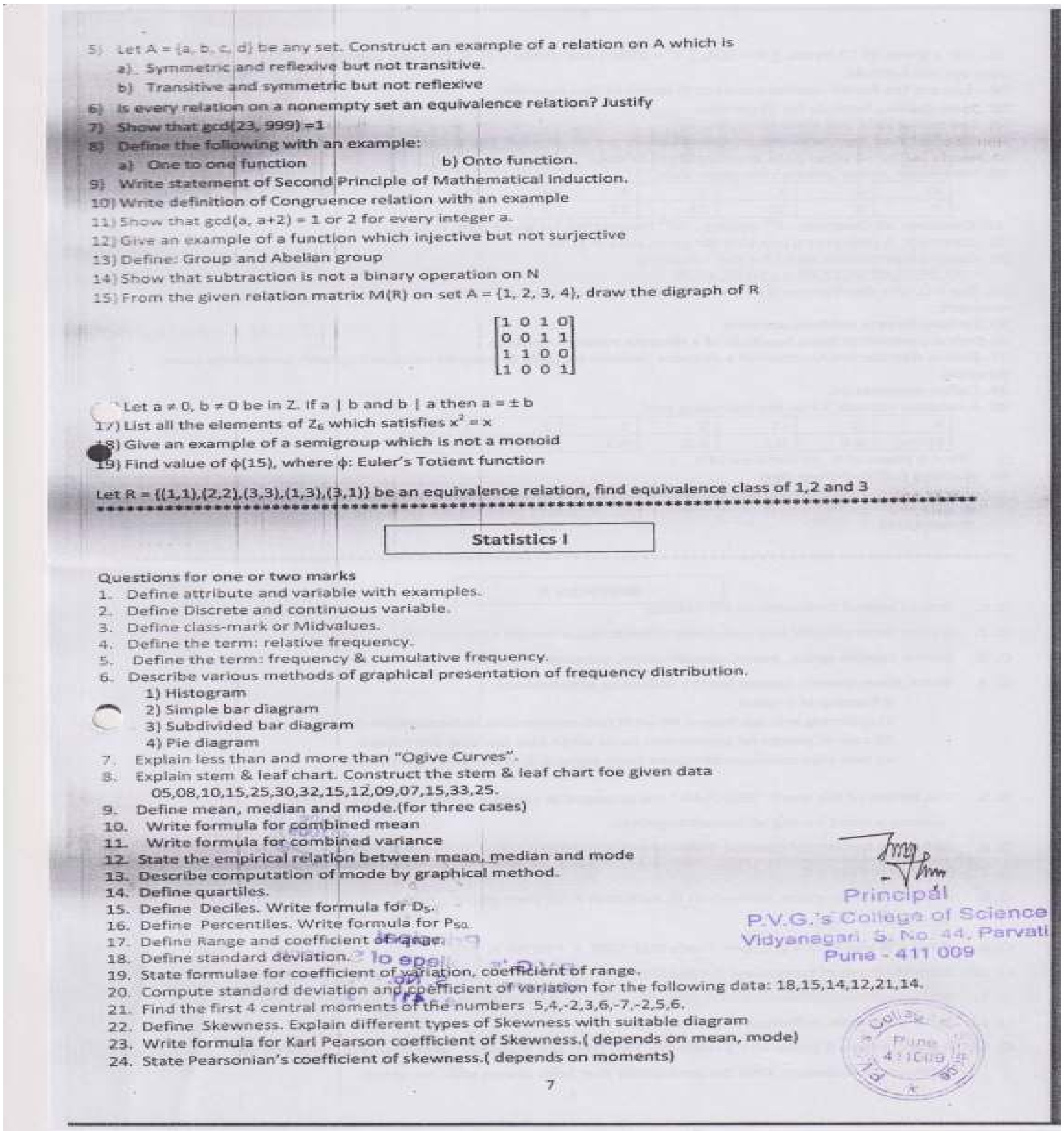

5) Let A = {a, b, c, d} be any set. Construct an example of a relation on A which is
   a) Symmetric and reflexive but not transitive.
   b) Transitive and symmetric but not reflexive
6) Is every relation on a nonempty set an equivalence relation? Justify
7) Show that gcd(23, 999) =1
8) Define the following with an example:
   a) One to one function b) Onto function.
9) Write statement of Second Principle of Mathematical Induction.
10) Write definition of Congruence relation with an example
11) Show that gcd(a, a+2) = 1 or 2 for every integer a.
12) Give an example of a function which injective but not surjective
13) Define: Group and Abelian group
14) Show that subtraction is not a binary operation on N
15) From the given relation matrix M(R) on set A = {1, 2, 3, 4}, draw the digraph of R

$$\begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & 1 \\ 1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 1 \end{bmatrix}$$

Let $a \neq 0$, $b \neq 0$ be in Z. If a | b and b | a then $a = \pm b$
17) List all the elements of Z_6 which satisfies $x^2 = x$
18) Give an example of a semigroup which is not a monoid
19) Find value of $\phi(15)$, where ϕ: Euler's Totient function

Let R = {(1,1),(2,2),(3,3),(1,3),(3,1)} be an equivalence relation, find equivalence class of 1,2 and 3

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Statistics I

Questions for one or two marks

1. Define attribute and variable with examples.
2. Define Discrete and continuous variable.
3. Define class-mark or Midvalues.
4. Define the term: relative frequency.
5. Define the term: frequency & cumulative frequency.
6. Describe various methods of graphical presentation of frequency distribution.
   1) Histogram
   2) Simple bar diagram
   3) Subdivided bar diagram
   4) Pie diagram
7. Explain less than and more than "Ogive Curves".
8. Explain stem & leaf chart. Construct the stem & leaf chart foe given data
   05,08,10,15,25,30,32,15,12,09,07,15,33,25.
9. Define mean, median and mode.(for three cases)
10. Write formula for combined mean
11. Write formula for combined variance
12. State the empirical relation between mean, median and mode
13. Describe computation of mode by graphical method.
14. Define quartiles.
15. Define Deciles. Write formula for D_5.
16. Define Percentiles. Write formula for P_{50}.
17. Define Range and coefficient of range.
18. Define standard deviation.
19. State formulae for coefficient of variation, coefficient of range.
20. Compute standard deviation and coefficient of variation for the following data: 18,15,14,12,21,14.
21. Find the first 4 central moments of the numbers 5,4,-2,3,6,-7,-2,5,6.
22. Define Skewness. Explain different types of Skewness with suitable diagram
23. Write formula for Karl Pearson coefficient of Skewness.(depends on mean, mode)
24. State Pearsonian's coefficient of skewness.(depends on moments)

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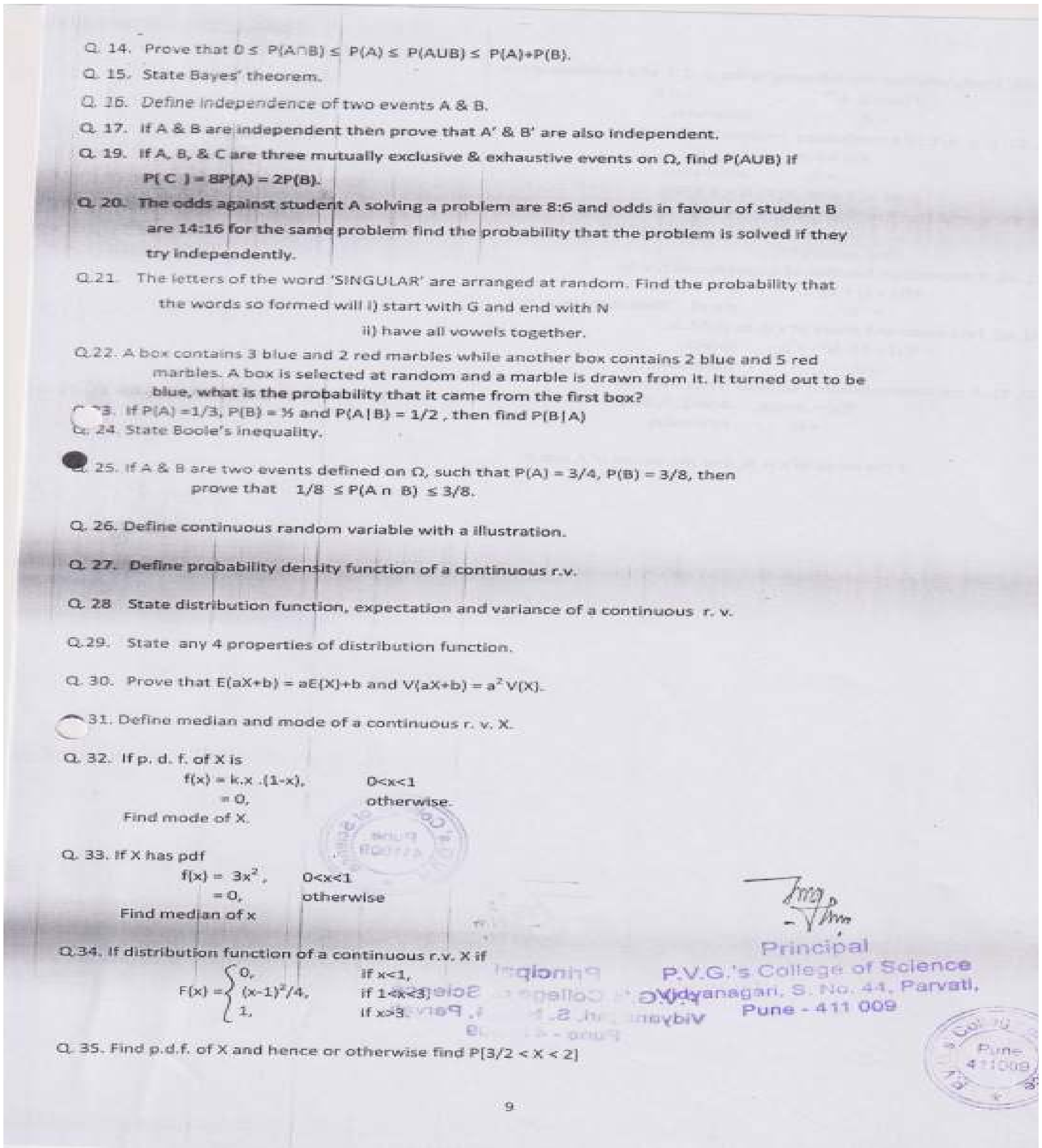

Q. 14. Prove that $0 \le P(A \cap B) \le P(A) \le P(A \cup B) \le P(A) + P(B)$.

Q. 15. State Bayes' theorem.

Q. 16. Define independence of two events A & B.

Q. 17. If A & B are independent then prove that A' & B' are also independent.

Q. 19. If A, B, & C are three mutually exclusive & exhaustive events on Ω, find $P(A \cup B)$ if $P(C) = 8P(A) = 2P(B)$.

Q. 20. The odds against student A solving a problem are 8:6 and odds in favour of student B are 14:16 for the same problem find the probability that the problem is solved if they try independently.

Q.21 The letters of the word 'SINGULAR' are arranged at random. Find the probability that the words so formed will i) start with G and end with N
ii) have all vowels together.

Q.22. A box contains 3 blue and 2 red marbles while another box contains 2 blue and 5 red marbles. A box is selected at random and a marble is drawn from it. It turned out to be blue, what is the probability that it came from the first box?

3. If $P(A) = 1/3$, $P(B) = ½$ and $P(A|B) = 1/2$, then find $P(B|A)$

Q. 24. State Boole's inequality.

25. If A & B are two events defined on Ω, such that $P(A) = 3/4$, $P(B) = 3/8$, then prove that $1/8 \le P(A \cap B) \le 3/8$.

Q. 26. Define continuous random variable with a illustration.

Q. 27. Define probability density function of a continuous r.v.

Q. 28 State distribution function, expectation and variance of a continuous r. v.

Q.29. State any 4 properties of distribution function.

Q. 30. Prove that $E(aX+b) = aE(X)+b$ and $V(aX+b) = a^2 V(X)$.

31. Define median and mode of a continuous r. v. X.

Q. 32. If p. d. f. of X is

$$f(x) = k.x.(1-x), \quad 0<x<1$$
$$= 0, \quad \text{otherwise.}$$

Find mode of X.

Q. 33. If X has pdf

$$f(x) = 3x^2, \quad 0<x<1$$
$$= 0, \quad \text{otherwise}$$

Find median of x

Q.34. If distribution function of a continuous r.v. X if

$$F(x) = \begin{cases} 0, & \text{if } x<1, \\ (x-1)^2/4, & \text{if } 1<x<3 \\ 1, & \text{if } x>3 \end{cases}$$

Q. 35. Find p.d.f. of X and hence or otherwise find $P[3/2 < X < 2]$

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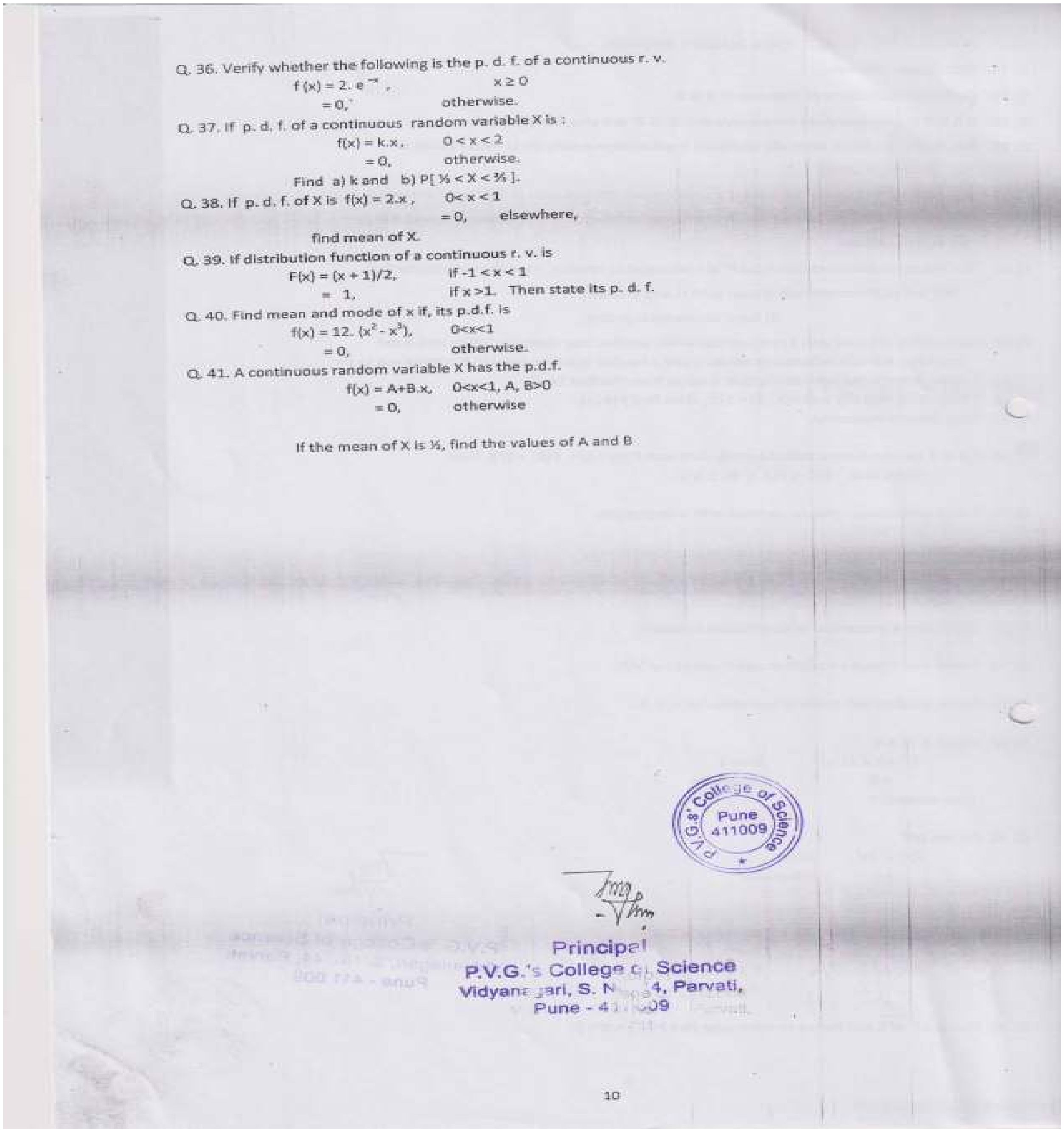

Q. 36. Verify whether the following is the p. d. f. of a continuous r. v.

$f(x) = 2.\,e^{-x}, \quad x \geq 0$

$= 0, \quad$ otherwise.

Q. 37. If p. d. f. of a continuous random variable X is :

$f(x) = k.x, \quad 0 < x < 2$

$= 0, \quad$ otherwise.

Find a) k and b) $P[\frac{1}{2} < X < \frac{3}{2}]$.

Q. 38. If p. d. f. of X is $f(x) = 2.x, \quad 0 < x < 1$

$= 0, \quad$ elsewhere,

find mean of X.

Q. 39. If distribution function of a continuous r. v. is

$F(x) = (x + 1)/2, \quad$ if $-1 < x < 1$

$= 1, \quad$ if $x > 1$. Then state its p. d. f.

Q. 40. Find mean and mode of x if, its p.d.f. is

$f(x) = 12.\,(x^2 - x^3), \quad 0<x<1$

$= 0, \quad$ otherwise.

Q. 41. A continuous random variable X has the p.d.f.

$f(x) = A+B.x, \quad 0<x<1,\ A, B>0$

$= 0, \quad$ otherwise

If the mean of X is ½, find the values of A and B

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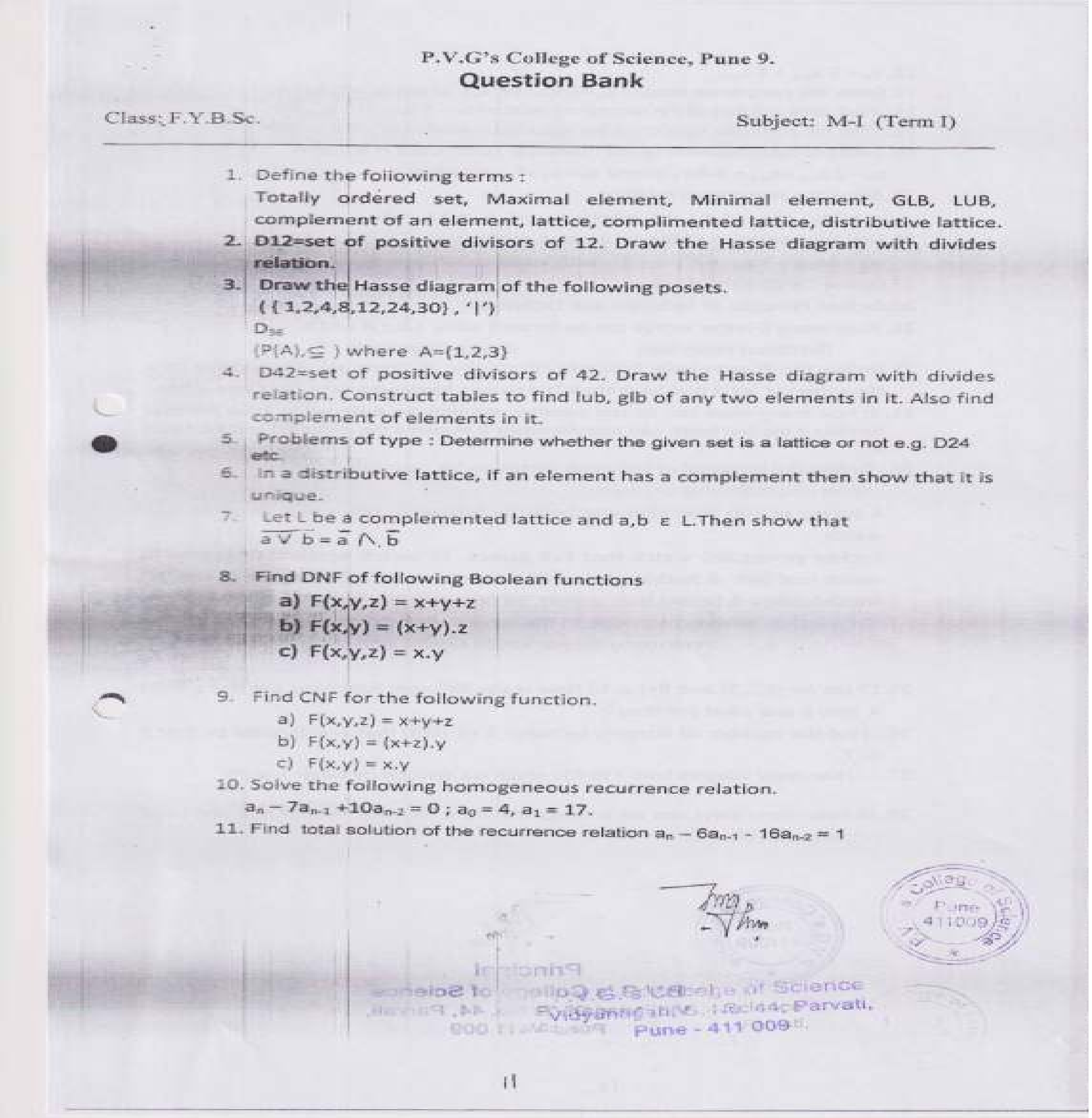

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Question Bank

Class: F.Y.B.Sc. Subject: M-I (Term I)

1. Define the following terms :
   Totally ordered set, Maximal element, Minimal element, GLB, LUB, complement of an element, lattice, complimented lattice, distributive lattice.
2. **D12=set of positive divisors of 12. Draw the Hasse diagram with divides relation.**
3. **Draw the Hasse diagram of the following posets.**
   ({1,2,4,8,12,24,30}, '|')
   D_{36}
   $(P(A), \subseteq)$ where A={1,2,3}
4. D42=set of positive divisors of 42. Draw the Hasse diagram with divides relation. Construct tables to find lub, glb of any two elements in it. Also find complement of elements in it.
5. Problems of type : Determine whether the given set is a lattice or not e.g. D24 etc.
6. In a distributive lattice, if an element has a complement then show that it is unique.
7. Let L be a complemented lattice and a,b ε L.Then show that
   $\overline{a \vee b} = \bar{a} \wedge \bar{b}$
8. Find DNF of following Boolean functions
   - a) F(x,y,z) = x+y+z
   - b) F(x,y) = (x+y).z
   - c) F(x,y,z) = x.y
9. Find CNF for the following function.
   - a) F(x,y,z) = x+y+z
   - b) F(x,y) = (x+z).y
   - c) F(x,y) = x.y
10. Solve the following homogeneous recurrence relation.
    $a_n - 7a_{n-1} + 10a_{n-2} = 0$; $a_0 = 4$, $a_1 = 17$.
11. Find total solution of the recurrence relation $a_n - 6a_{n-1} - 16a_{n-2} = 1$

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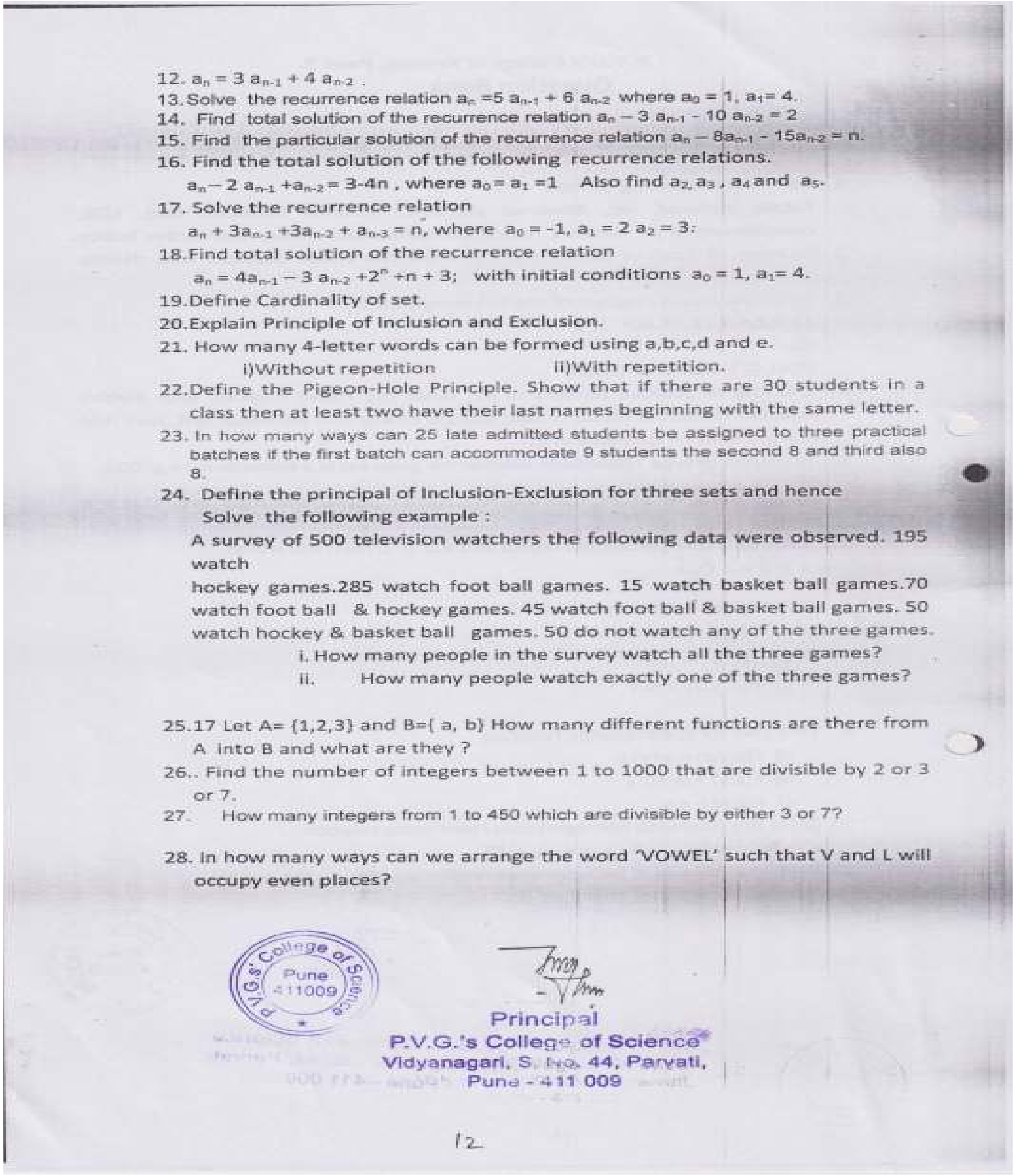

12. $a_n = 3\,a_{n-1} + 4\,a_{n-2}$.
13. Solve the recurrence relation $a_n = 5\,a_{n-1} + 6\,a_{n-2}$ where $a_0 = 1$, $a_1 = 4$.
14. Find total solution of the recurrence relation $a_n - 3\,a_{n-1} - 10\,a_{n-2} = 2$
15. Find the particular solution of the recurrence relation $a_n - 8a_{n-1} - 15a_{n-2} = n$.
16. Find the total solution of the following recurrence relations.
    $a_n - 2\,a_{n-1} + a_{n-2} = 3 - 4n$, where $a_0 = a_1 = 1$ Also find a_2, a_3 , a_4 and a_5.
17. Solve the recurrence relation
    $a_n + 3a_{n-1} + 3a_{n-2} + a_{n-3} = n$, where $a_0 = -1$, $a_1 = 2$ $a_2 = 3$.
18. Find total solution of the recurrence relation
    $a_n = 4a_{n-1} - 3\,a_{n-2} + 2^n + n + 3$; with initial conditions $a_0 = 1$, $a_1 = 4$.
19. Define Cardinality of set.
20. Explain Principle of Inclusion and Exclusion.
21. How many 4-letter words can be formed using a,b,c,d and e.
    i)Without repetition ii)With repetition.
22. Define the Pigeon-Hole Principle. Show that if there are 30 students in a class then at least two have their last names beginning with the same letter.
23. In how many ways can 25 late admitted students be assigned to three practical batches if the first batch can accommodate 9 students the second 8 and third also 8.
24. Define the principal of Inclusion-Exclusion for three sets and hence
    Solve the following example :
    A survey of 500 television watchers the following data were observed. 195 watch
    hockey games.285 watch foot ball games. 15 watch basket ball games.70 watch foot ball & hockey games. 45 watch foot ball & basket ball games. 50 watch hockey & basket ball games. 50 do not watch any of the three games.
    i. How many people in the survey watch all the three games?
    ii. How many people watch exactly one of the three games?

25.17 Let A= {1,2,3} and B={ a, b} How many different functions are there from A into B and what are they ?
26.. Find the number of integers between 1 to 1000 that are divisible by 2 or 3 or 7.
27. How many integers from 1 to 450 which are divisible by either 3 or 7?

28. In how many ways can we arrange the word 'VOWEL' such that V and L will occupy even places?

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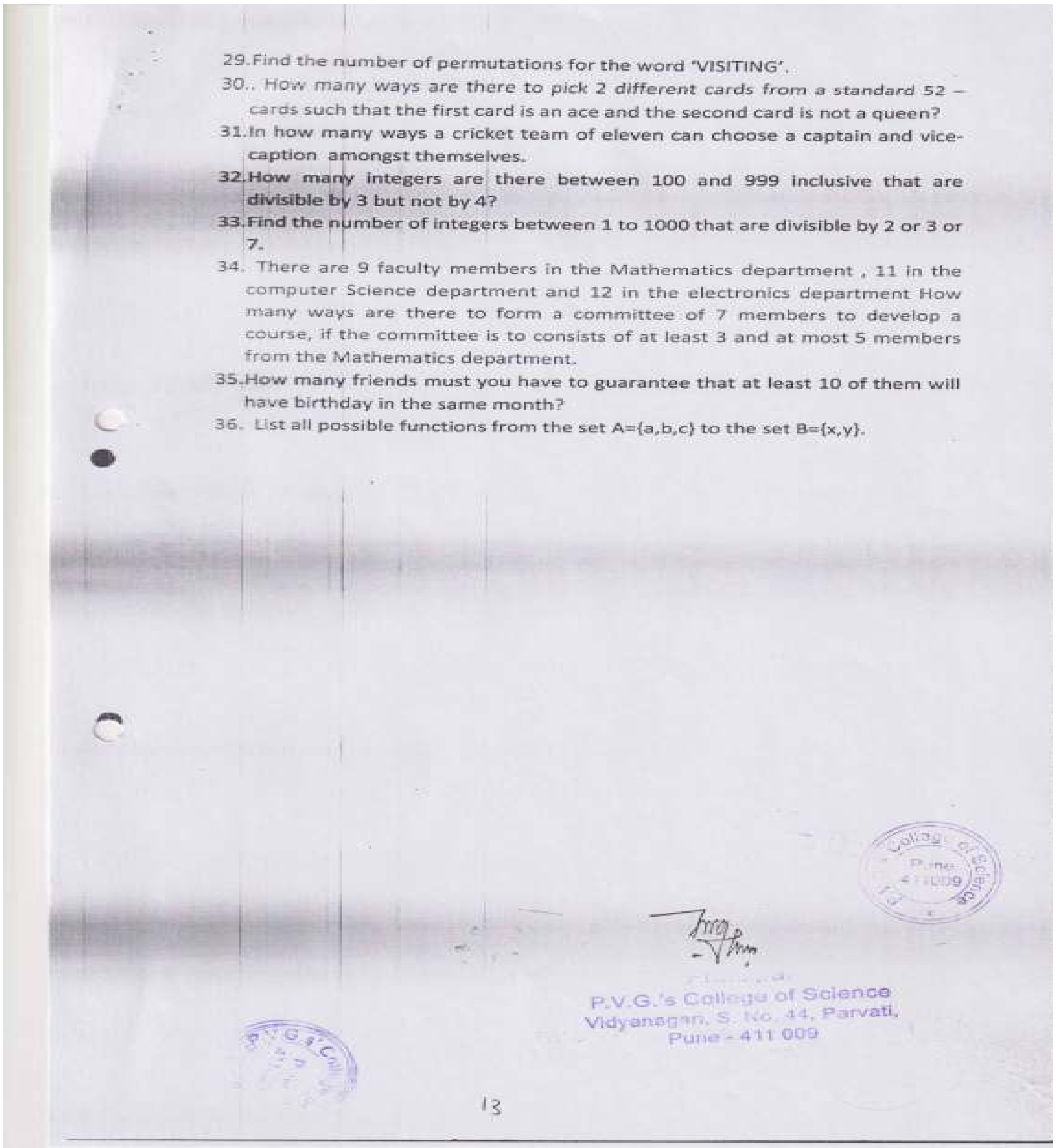

29. Find the number of permutations for the word 'VISITING'.
30. . How many ways are there to pick 2 different cards from a standard 52 – cards such that the first card is an ace and the second card is not a queen?
31. In how many ways a cricket team of eleven can choose a captain and vice-caption amongst themselves.
32. How many integers are there between 100 and 999 inclusive that are divisible by 3 but not by 4?
33. Find the number of integers between 1 to 1000 that are divisible by 2 or 3 or 7.
34. There are 9 faculty members in the Mathematics department , 11 in the computer Science department and 12 in the electronics department How many ways are there to form a committee of 7 members to develop a course, if the committee is to consists of at least 3 and at most 5 members from the Mathematics department.
35. How many friends must you have to guarantee that at least 10 of them will have birthday in the same month?
36. List all possible functions from the set A={a,b,c} to the set B={x,y}.

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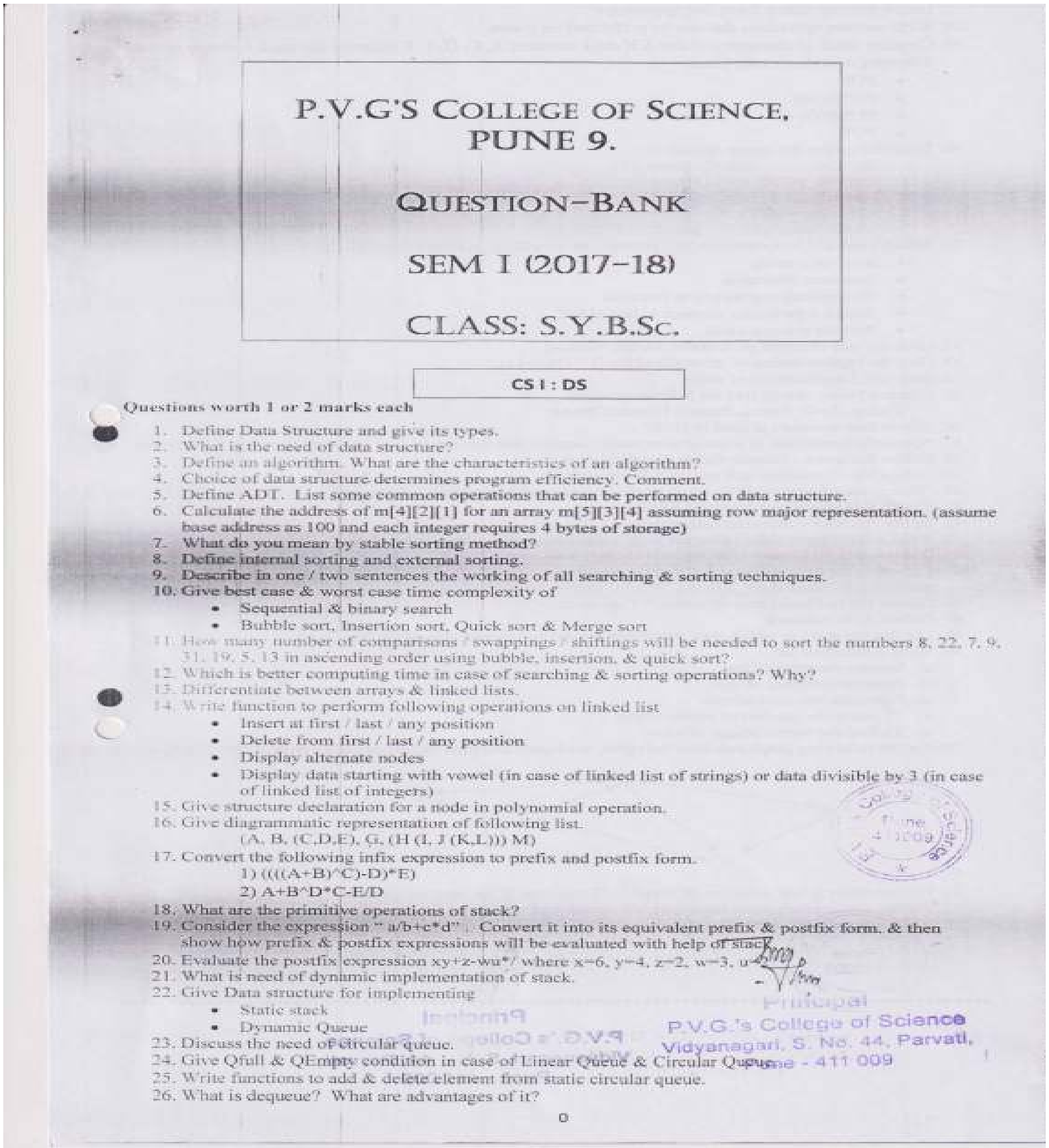
S.Y. Question Bank Sem-I:



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QUESTION–BANK

SEM I (2017–18)

CLASS: S.Y.B.Sc.

CS I : DS

Questions worth 1 or 2 marks each

1. Define Data Structure and give its types.
2. What is the need of data structure?
3. Define an algorithm. What are the characteristics of an algorithm?
4. Choice of data structure determines program efficiency. Comment.
5. Define ADT. List some common operations that can be performed on data structure.
6. Calculate the address of m[4][2][1] for an array m[5][3][4] assuming row major representation. (assume base address as 100 and each integer requires 4 bytes of storage)
7. What do you mean by stable sorting method?
8. Define internal sorting and external sorting.
9. Describe in one / two sentences the working of all searching & sorting techniques.
10. Give best case & worst case time complexity of
    - Sequential & binary search
    - Bubble sort, Insertion sort, Quick sort & Merge sort
11. How many number of comparisons / swappings / shiftings will be needed to sort the numbers 8, 22, 7, 9, 31, 19, 5, 13 in ascending order using bubble, insertion, & quick sort?
12. Which is better computing time in case of searching & sorting operations? Why?
13. Differentiate between arrays & linked lists.
14. Write function to perform following operations on linked list
    - Insert at first / last / any position
    - Delete from first / last / any position
    - Display alternate nodes
    - Display data starting with vowel (in case of linked list of strings) or data divisible by 3 (in case of linked list of integers)
15. Give structure declaration for a node in polynomial operation.
16. Give diagrammatic representation of following list.
    (A, B, (C,D,E), G, (H (I, J (K,L))) M)
17. Convert the following infix expression to prefix and postfix form.
    1) ((((A+B)^C)-D)*E)
    2) A+B^D*C-E/D
18. What are the primitive operations of stack?
19. Consider the expression " a/b+c*d" . Convert it into its equivalent prefix & postfix form. & then show how prefix & postfix expressions will be evaluated with help of stack.
20. Evaluate the postfix expression xy+z-wu*/ where x=6, y=4, z=2, w=3, u
21. What is need of dynmic implementation of stack.
22. Give Data structure for implementing
    - Static stack
    - Dynamic Queue
23. Discuss the need of circular queue.
24. Give Qfull & QEmpty condition in case of Linear Queue & Circular Queue
25. Write functions to add & delete element from static circular queue.
26. What is dequeue? What are advantages of it?

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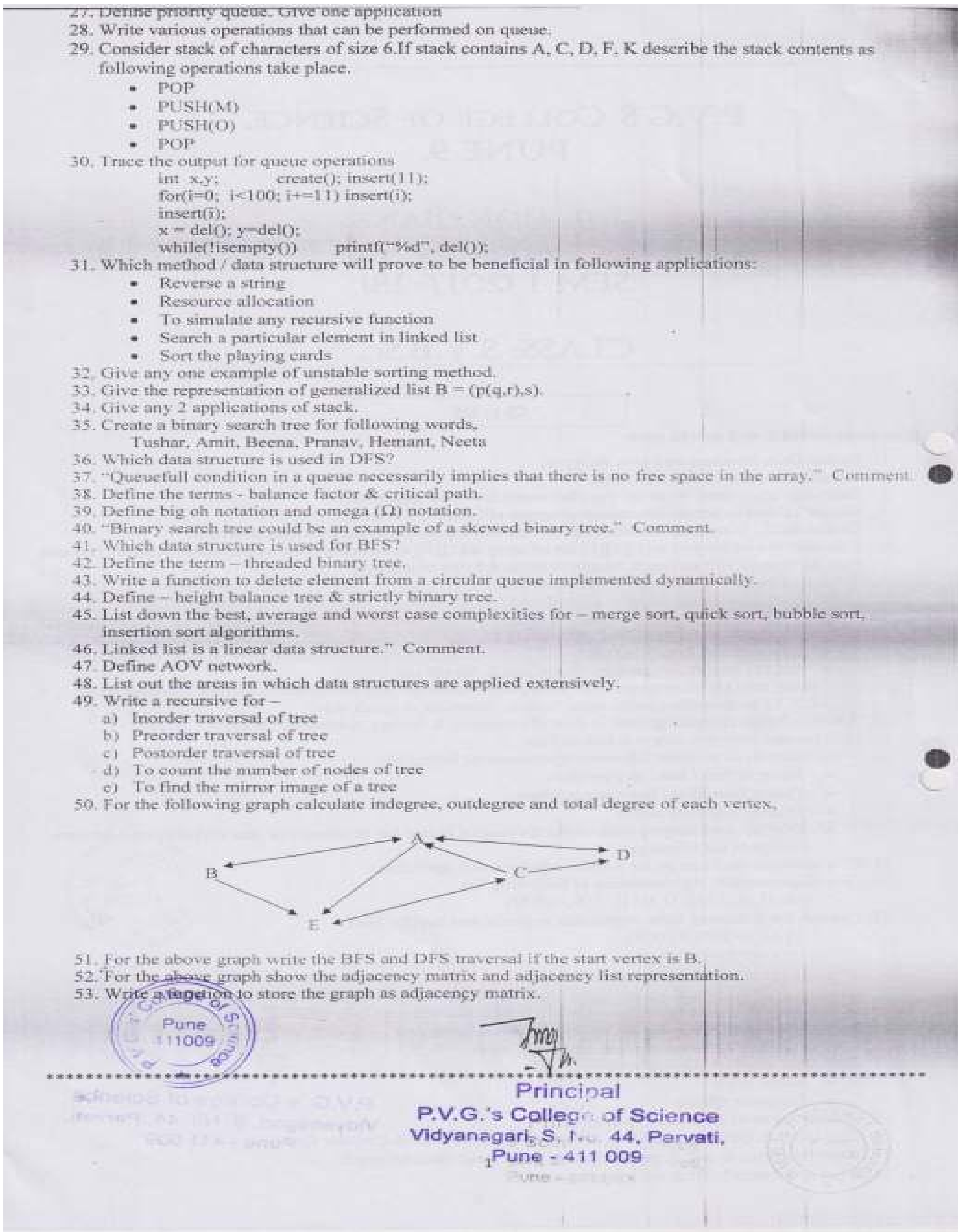

27. Define priority queue. Give one application
28. Write various operations that can be performed on queue.
29. Consider stack of characters of size 6.If stack contains A, C, D, F, K describe the stack contents as following operations take place.
    - POP
    - PUSH(M)
    - PUSH(O)
    - POP
30. Trace the output for queue operations

```
int  x,y;          create(); insert(11);
for(i=0;  i<100; i+=11) insert(i);
insert(i);
x = del(); y=del();
while(!isempty())       printf("%d", del());
```

31. Which method / data structure will prove to be beneficial in following applications:
    - Reverse a string
    - Resource allocation
    - To simulate any recursive function
    - Search a particular element in linked list
    - Sort the playing cards
32. Give any one example of unstable sorting method.
33. Give the representation of generalized list B = (p(q,r),s).
34. Give any 2 applications of stack.
35. Create a binary search tree for following words.
    Tushar, Amit, Beena, Pranav, Hemant, Neeta
36. Which data structure is used in DFS?
37. "Queuefull condition in a queue necessarily implies that there is no free space in the array." Comment.
38. Define the terms - balance factor & critical path.
39. Define big oh notation and omega (Ω) notation.
40. "Binary search tree could be an example of a skewed binary tree." Comment.
41. Which data structure is used for BFS?
42. Define the term – threaded binary tree.
43. Write a function to delete element from a circular queue implemented dynamically.
44. Define – height balance tree & strictly binary tree.
45. List down the best, average and worst case complexities for – merge sort, quick sort, bubble sort, insertion sort algorithms.
46. Linked list is a linear data structure." Comment.
47. Define AOV network.
48. List out the areas in which data structures are applied extensively.
49. Write a recursive for –
    a) Inorder traversal of tree
    b) Preorder traversal of tree
    c) Postorder traversal of tree
    d) To count the number of nodes of tree
    e) To find the mirror image of a tree
50. For the following graph calculate indegree, outdegree and total degree of each vertex.

51. For the above graph write the BFS and DFS traversal if the start vertex is B.
52. For the above graph show the adjacency matrix and adjacency list representation.
53. Write a function to store the graph as adjacency matrix.

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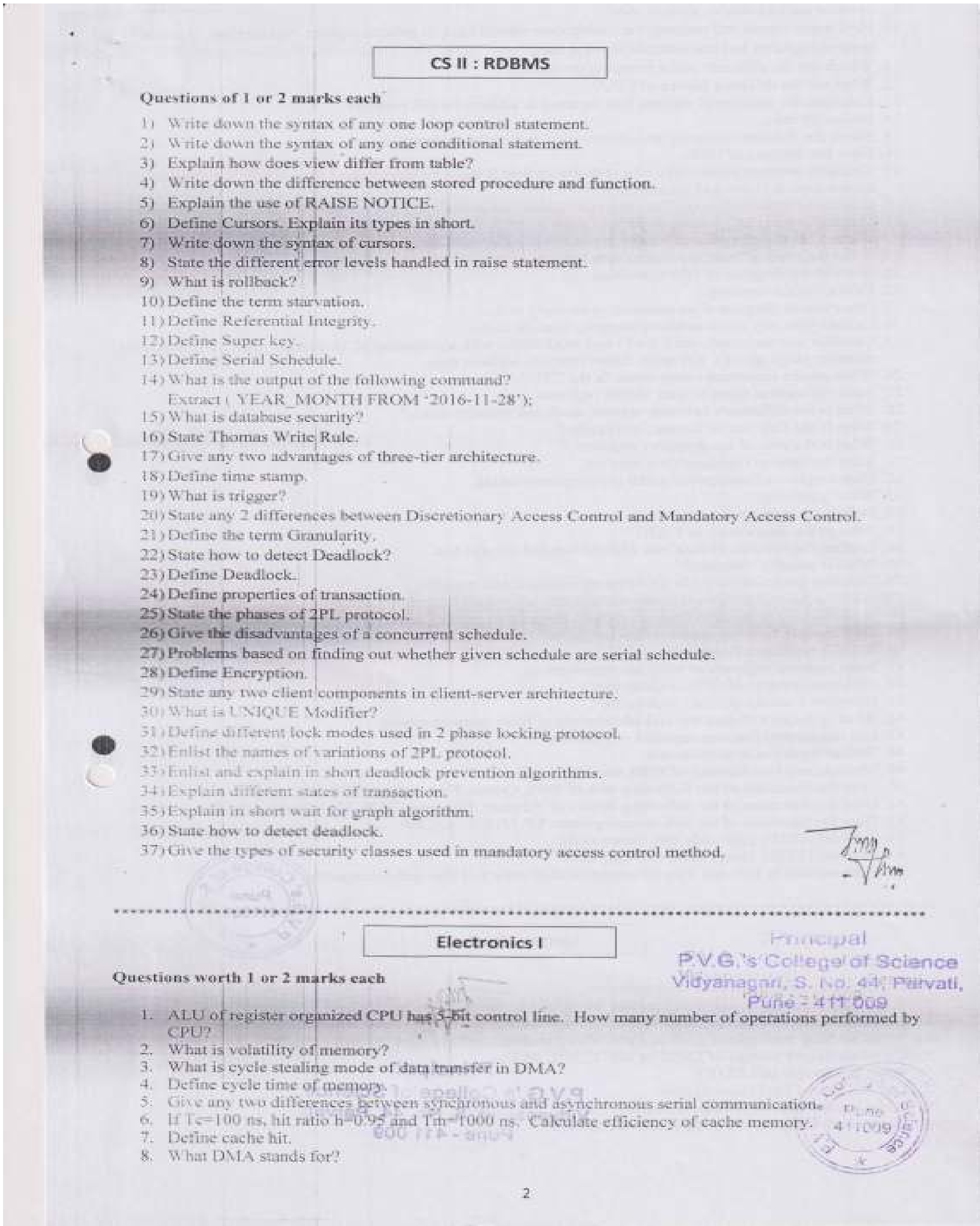

CS II : RDBMS

Questions of 1 or 2 marks each

1) Write down the syntax of any one loop control statement.
2) Write down the syntax of any one conditional statement.
3) Explain how does view differ from table?
4) Write down the difference between stored procedure and function.
5) Explain the use of RAISE NOTICE.
6) Define Cursors. Explain its types in short.
7) Write down the syntax of cursors.
8) State the different error levels handled in raise statement.
9) What is rollback?
10) Define the term starvation.
11) Define Referential Integrity.
12) Define Super key.
13) Define Serial Schedule.
14) What is the output of the following command?
    Extract (YEAR_MONTH FROM '2016-11-28');
15) What is database security?
16) State Thomas Write Rule.
17) Give any two advantages of three-tier architecture.
18) Define time stamp.
19) What is trigger?
20) State any 2 differences between Discretionary Access Control and Mandatory Access Control.
21) Define the term Granularity.
22) State how to detect Deadlock?
23) Define Deadlock.
24) Define properties of transaction.
25) State the phases of 2PL protocol.
26) Give the disadvantages of a concurrent schedule.
27) Problems based on finding out whether given schedule are serial schedule.
28) Define Encryption.
29) State any two client components in client-server architecture.
30) What is UNIQUE Modifier?
31) Define different lock modes used in 2 phase locking protocol.
32) Enlist the names of variations of 2PL protocol.
33) Enlist and explain in short deadlock prevention algorithms.
34) Explain different states of transaction.
35) Explain in short wait for graph algorithm.
36) State how to detect deadlock.
37) Give the types of security classes used in mandatory access control method.

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Electronics I

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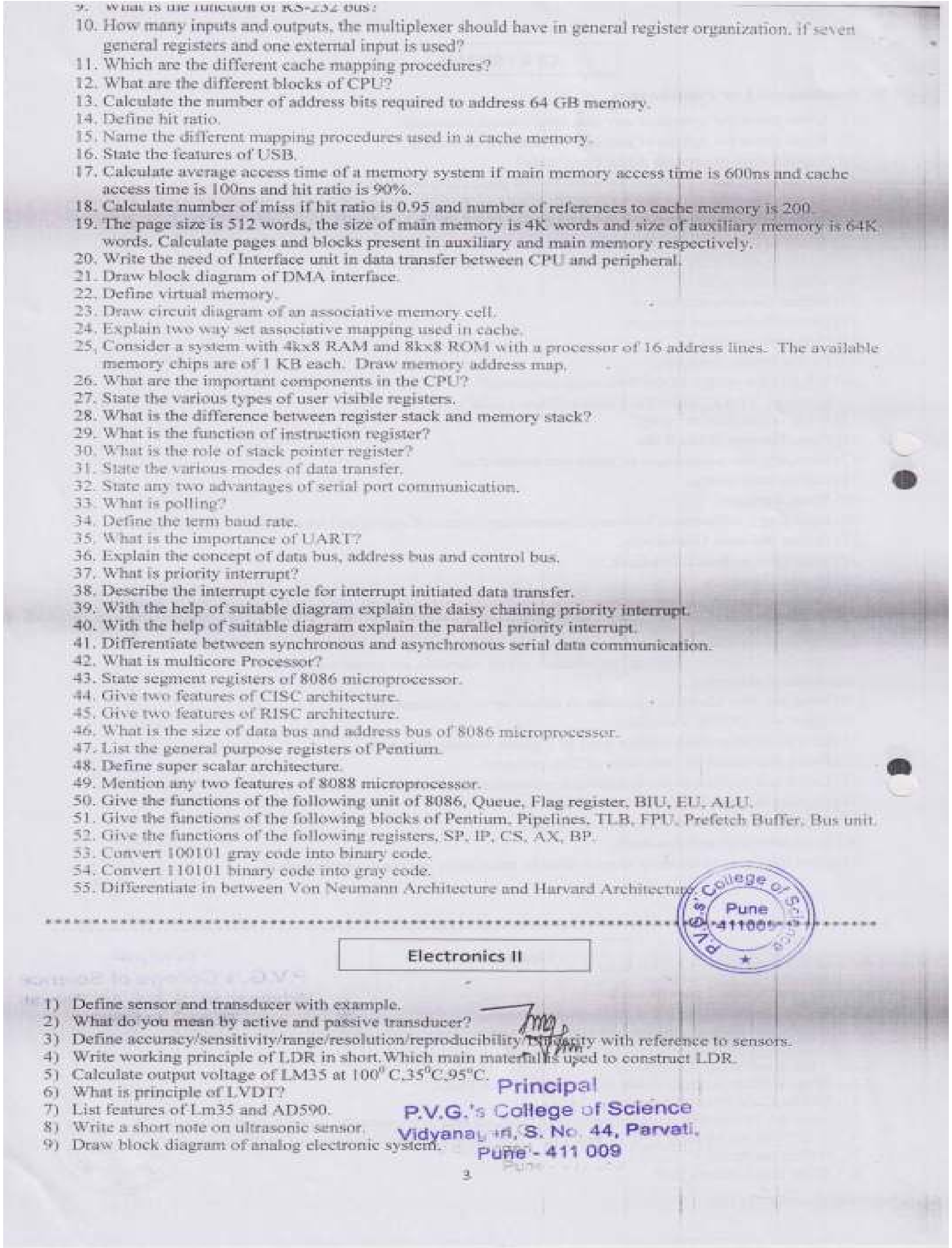
Questions worth 1 or 2 marks each

1. ALU of register organized CPU has 5-bit control line. How many number of operations performed by CPU?
2. What is volatility of memory?
3. What is cycle stealing mode of data transfer in DMA?
4. Define cycle time of memory.
5. Give any two differences between synchronous and asynchronous serial communication.
6. If Tc=100 ns, hit ratio h=0.95 and Tm=1000 ns. Calculate efficiency of cache memory.
7. Define cache hit.
8. What DMA stands for?



9. What is the function of RS-232 bus?
10. How many inputs and outputs, the multiplexer should have in general register organization, if seven general registers and one external input is used?
11. Which are the different cache mapping procedures?
12. What are the different blocks of CPU?
13. Calculate the number of address bits required to address 64 GB memory.
14. Define hit ratio.
15. Name the different mapping procedures used in a cache memory.
16. State the features of USB.
17. Calculate average access time of a memory system if main memory access time is 600ns and cache access time is 100ns and hit ratio is 90%.
18. Calculate number of miss if hit ratio is 0.95 and number of references to cache memory is 200.
19. The page size is 512 words, the size of main memory is 4K words and size of auxiliary memory is 64K words. Calculate pages and blocks present in auxiliary and main memory respectively.
20. Write the need of Interface unit in data transfer between CPU and peripheral.
21. Draw block diagram of DMA interface.
22. Define virtual memory.
23. Draw circuit diagram of an associative memory cell.
24. Explain two way set associative mapping used in cache.
25. Consider a system with 4kx8 RAM and 8kx8 ROM with a processor of 16 address lines. The available memory chips are of 1 KB each. Draw memory address map.
26. What are the important components in the CPU?
27. State the various types of user visible registers.
28. What is the difference between register stack and memory stack?
29. What is the function of instruction register?
30. What is the role of stack pointer register?
31. State the various modes of data transfer.
32. State any two advantages of serial port communication.
33. What is polling?
34. Define the term baud rate.
35. What is the importance of UART?
36. Explain the concept of data bus, address bus and control bus.
37. What is priority interrupt?
38. Describe the interrupt cycle for interrupt initiated data transfer.
39. With the help of suitable diagram explain the daisy chaining priority interrupt.
40. With the help of suitable diagram explain the parallel priority interrupt.
41. Differentiate between synchronous and asynchronous serial data communication.
42. What is multicore Processor?
43. State segment registers of 8086 microprocessor.
44. Give two features of CISC architecture.
45. Give two features of RISC architecture.
46. What is the size of data bus and address bus of 8086 microprocessor.
47. List the general purpose registers of Pentium.
48. Define super scalar architecture.
49. Mention any two features of 8088 microprocessor.
50. Give the functions of the following unit of 8086, Queue, Flag register, BIU, EU, ALU.
51. Give the functions of the following blocks of Pentium, Pipelines, TLB, FPU, Prefetch Buffer, Bus unit.
52. Give the functions of the following registers, SP, IP, CS, AX, BP.
53. Convert 100101 gray code into binary code.
54. Convert 110101 binary code into gray code.
55. Differentiate in between Von Neumann Architecture and Harvard Architecture.

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Electronics II

1) Define sensor and transducer with example.
2) What do you mean by active and passive transducer?
3) Define accuracy/sensitivity/range/resolution/reproducibility/linearity with reference to sensors.
4) Write working principle of LDR in short.Which main material is used to construct LDR.
5) Calculate output voltage of LM35 at 100^{0} C,35^{0}C,95^{0}C.
6) What is principle of LVDT?
7) List features of Lm35 and AD590.
8) Write a short note on ultrasonic sensor.
9) Draw block diagram of analog electronic system.

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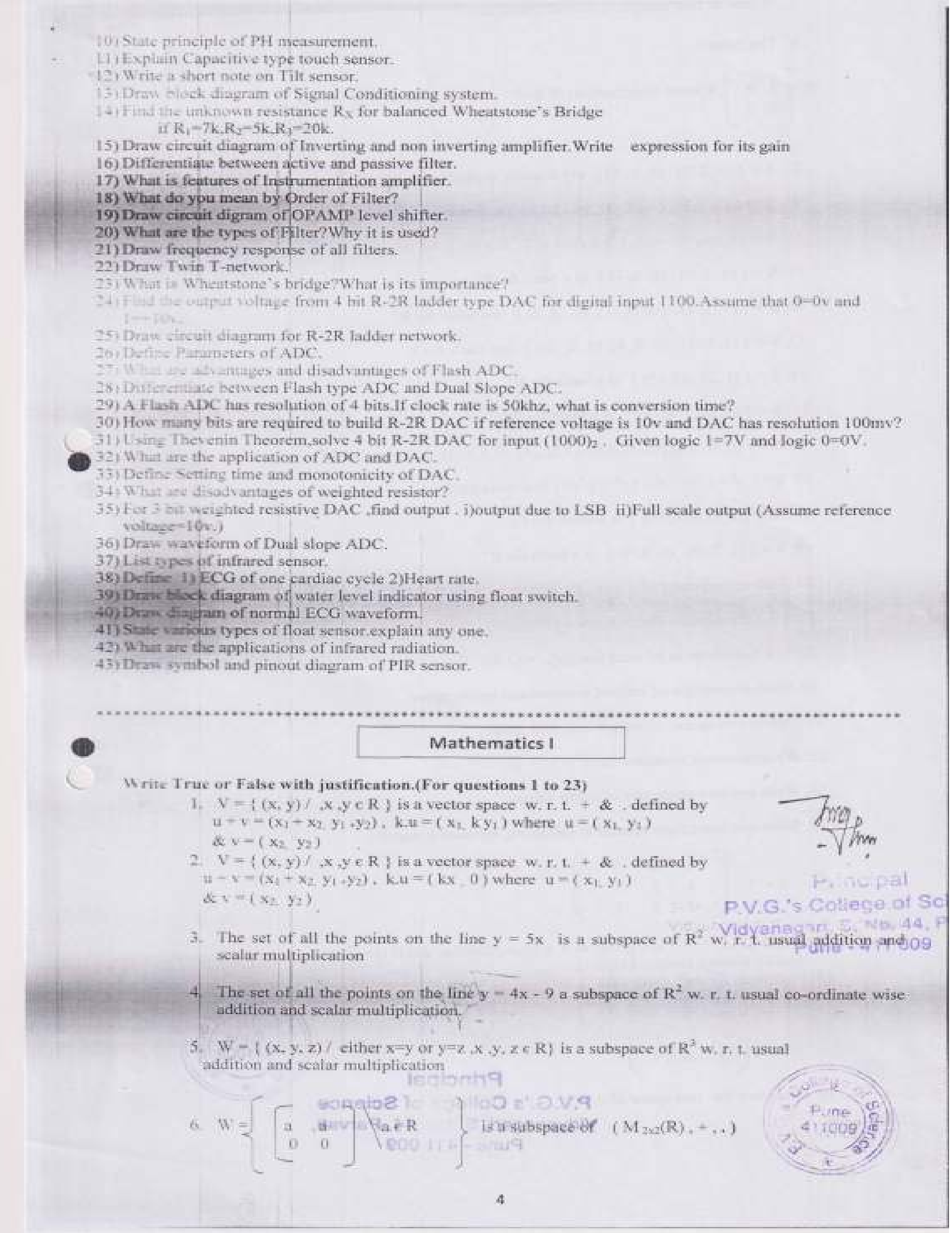

10) State principle of PH measurement.
11) Explain Capacitive type touch sensor.
12) Write a short note on Tilt sensor.
13) Draw block diagram of Signal Conditioning system.
14) Find the unknown resistance R_X for balanced Wheatstone's Bridge
if $R_1=7k, R_2=5k, R_3=20k$.
15) Draw circuit diagram of Inverting and non inverting amplifier.Write expression for its gain
16) Differentiate between active and passive filter.
17) What is features of Instrumentation amplifier.
18) What do you mean by Order of Filter?
19) Draw circuit digram of OPAMP level shifter.
20) What are the types of Filter?Why it is used?
21) Draw frequency response of all filters.
22) Draw Twin T-network.
23) What is Wheatstone's bridge?What is its importance?
24) Find the output voltage from 4 bit R-2R ladder type DAC for digital input 1100.Assume that 0=0v and 1=10v.
25) Draw circuit diagram for R-2R ladder network.
26) Define Parameters of ADC.
27) What are advantages and disadvantages of Flash ADC.
28) Differentiate between Flash type ADC and Dual Slope ADC.
29) A Flash ADC has resolution of 4 bits.If clock rate is 50khz, what is conversion time?
30) How many bits are required to build R-2R DAC if reference voltage is 10v and DAC has resolution 100mv?
31) Using Thevenin Theorem,solve 4 bit R-2R DAC for input $(1000)_2$. Given logic 1=7V and logic 0=0V.
32) What are the application of ADC and DAC.
33) Define Setting time and monotonicity of DAC.
34) What are disadvantages of weighted resistor?
35) For 3 bit weighted resistive DAC ,find output . i)output due to LSB ii)Full scale output (Assume reference voltage=10v.)
36) Draw waveform of Dual slope ADC.
37) List types of infrared sensor.
38) Define 1) ECG of one cardiac cycle 2)Heart rate.
39) Draw block diagram of water level indicator using float switch.
40) Draw diagram of normal ECG waveform.
41) State various types of float sensor.explain any one.
42) What are the applications of infrared radiation.
43) Draw symbol and pinout diagram of PIR sensor.

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Mathematics I

Write True or False with justification.(For questions 1 to 23)

1. $V = \{ (x, y) / x, y \in R \}$ is a vector space w. r. t. + & . defined by $u + v = (x_1 + x_2, y_1 + y_2)$, $k.u = (x_1, k y_1)$ where $u = (x_1, y_1)$ & $v = (x_2, y_2)$
2. $V = \{ (x, y) / x, y \in R \}$ is a vector space w. r. t. + & . defined by $u + v = (x_1 + x_2, y_1 + y_2)$, $k.u = (kx, 0)$ where $u = (x_1, y_1)$ & $v = (x_2, y_2)$
3. The set of all the points on the line $y = 5x$ is a subspace of R^2 w. r. t. usual addition and scalar multiplication
4. The set of all the points on the line $y = 4x - 9$ a subspace of R^2 w. r. t. usual co-ordinate wise addition and scalar multiplication.
5. $W = \{ (x, y, z) /$ either $x=y$ or $y=z$, $x, y, z \in R \}$ is a subspace of R^3 w. r. t. usual addition and scalar multiplication
6. $W = \left\{ \begin{bmatrix} a & a \\ 0 & 0 \end{bmatrix} / a \in R \right\}$ is a subspace of $(M_{2\times2}(R), +, .)$

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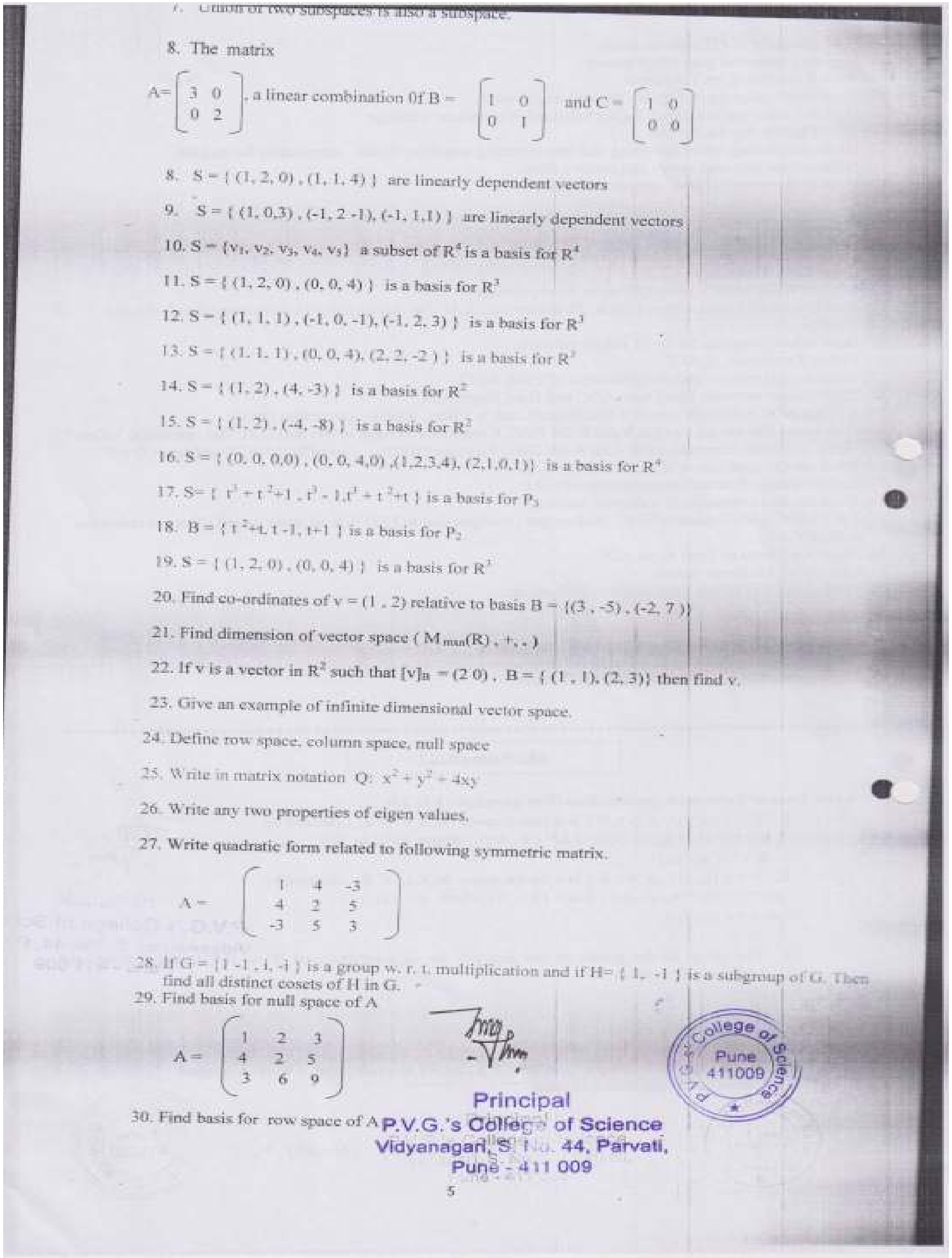

7. Union of two subspaces is also a subspace.

8. The matrix

$A=\begin{bmatrix} 3 & 0 \\ 0 & 2 \end{bmatrix}$, a linear combination 0f B = $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ and C = $\begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}$

8. S = { (1, 2, 0) , (1, 1, 4) } are linearly dependent vectors

9. S = { (1, 0,3) , (-1, 2 -1), (-1, 1,1) } are linearly dependent vectors

10. S = {v_1, v_2, v_3, v_4, v_5} a subset of R^4 is a basis for R^4

11. S = { (1, 2, 0) , (0, 0, 4) } is a basis for R^3

12. S = { (1, 1, 1) , (-1, 0, -1), (-1, 2, 3) } is a basis for R^3

13. S = { (1, 1, 1) , (0, 0, 4), (2, 2, -2) } is a basis for R^3

14. S = { (1, 2) , (4, -3) } is a basis for R^2

15. S = { (1, 2) , (-4, -8) } is a basis for R^2

16. S = { (0, 0, 0,0) , (0, 0, 4,0) ,(1,2,3,4), (2,1,0,1)} is a basis for R^4

17. S= { $t^3 + t^2 + 1$, $t^3 - 1$, $t^3 + t^2 + t$ } is a basis for P_3

18. B = { $t^2 + t$, t -1, t+1 } is a basis for P_2

19. S = { (1, 2, 0) , (0, 0, 4) } is a basis for R^3

20. Find co-ordinates of v = (1 , 2) relative to basis B = {(3 , -5) , (-2, 7)}

21. Find dimension of vector space ($M_{mxn}(R)$, +, .)

22. If v is a vector in R^2 such that $[v]_B$ = (2 0) , B = { (1 , 1), (2, 3)} then find v.

23. Give an example of infinite dimensional vector space.

24. Define row space, column space, null space

25. Write in matrix notation Q: $x^2 + y^2 + 4xy$

26. Write any two properties of eigen values.

27. Write quadratic form related to following symmetric matrix.

$$A = \begin{pmatrix} 1 & 4 & -3 \\ 4 & 2 & 5 \\ -3 & 5 & 3 \end{pmatrix}$$

28. If G = {1 -1 , i, -i } is a group w. r. t. multiplication and if H= { 1, -1 } is a subgroup of G. Then find all distinct cosets of H in G.

29. Find basis for null space of A

$$A = \begin{pmatrix} 1 & 2 & 3 \\ 4 & 2 & 5 \\ 3 & 6 & 9 \end{pmatrix}$$

30. Find basis for row space of A

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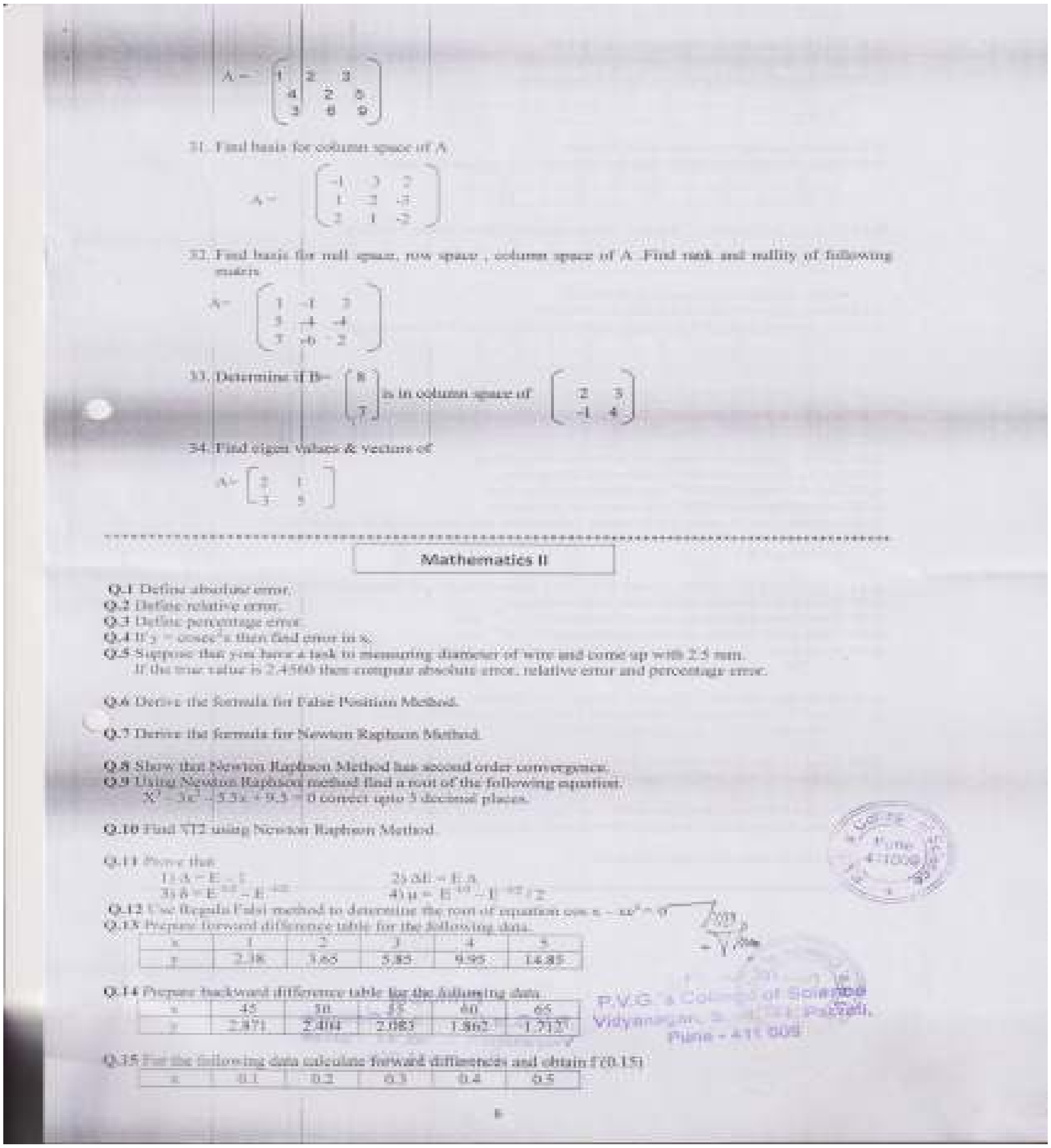

$$A = \begin{pmatrix} 1 & 2 & 3 \\ 4 & 2 & 5 \\ 3 & 6 & 9 \end{pmatrix}$$

31. Find basis for column space of A

$$A = \begin{pmatrix} -1 & 3 & 2 \\ 1 & -2 & -3 \\ 2 & 1 & -2 \end{pmatrix}$$

32. Find basis for null space, row space , column space of A. Find rank and nullity of following matrix

$$A = \begin{pmatrix} 1 & -1 & 2 \\ 3 & -4 & -4 \\ 7 & -6 & 2 \end{pmatrix}$$

33. Determine if $B = \begin{pmatrix} 8 \\ 7 \end{pmatrix}$ is in column space of $\begin{pmatrix} 2 & 3 \\ -1 & 4 \end{pmatrix}$

34. Find eigen values & vectors of

$$A = \begin{bmatrix} 2 & 1 \\ 3 & 5 \end{bmatrix}$$

Mathematics II

Q.1 Define absolute error.
Q.2 Define relative error.
Q.3 Define percentage error.
Q.4 If $y = \operatorname{cosec}^2 x$ then find error in x.
Q.5 Suppose that you have a task to measuring diameter of wire and come up with 2.5 mm. If the true value is 2.4560 then compute absolute error, relative error and percentage error.

Q.6 Derive the formula for False Position Method.

Q.7 Derive the formula for Newton Raphson Method.

Q.8 Show that Newton Raphson Method has second order convergence.
Q.9 Using Newton Raphson method find a root of the following equation.
$X^3 - 3x^2 - 5.5x + 9.5 = 0$ correct upto 3 decimal places.

Q.10 Find √12 using Newton Raphson Method.

Q.11 Prove that

1) $\Delta = E - 1$ 2) $\Delta E = E\Delta$
3) $\delta = E^{1/2} - E^{-1/2}$ 4) $\mu = E^{1/2} - E^{-1/2}/2$

Q.12 Use Regula Falsi method to determine the root of equation $\cos x - xe^x = 0$
Q.13 Prepare forward difference table for the following data.

x	1	2	3	4	5
y	2.38	3.65	5.85	9.95	14.85

Q.14 Prepare backward difference table for the following data.

x	45	50	55	60	65
y	2.871	2.404	2.083	1.862	1.712

Q.15 For the following data calculate forward differences and obtain f(0.15)

x	0.1	0.2	0.3	0.4	0.5

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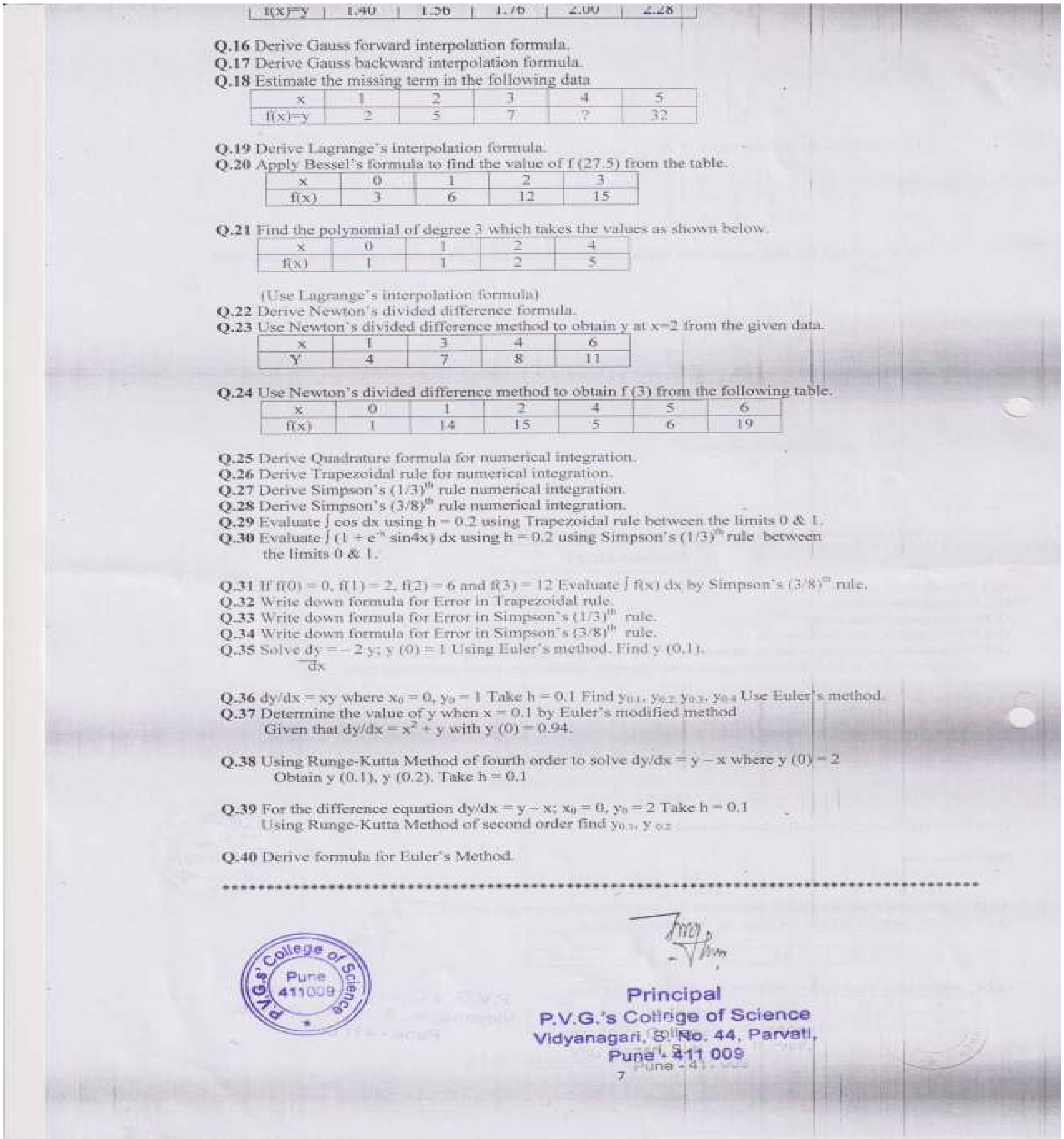

f(x)=y	1.40	1.56	1.76	2.00	2.28

Q.16 Derive Gauss forward interpolation formula.
Q.17 Derive Gauss backward interpolation formula.
Q.18 Estimate the missing term in the following data

x	1	2	3	4	5
f(x)=y	2	5	7	?	32

Q.19 Derive Lagrange's interpolation formula.
Q.20 Apply Bessel's formula to find the value of f (27.5) from the table.

x	0	1	2	3
f(x)	3	6	12	15

Q.21 Find the polynomial of degree 3 which takes the values as shown below.

x	0	1	2	4
f(x)	1	1	2	5

(Use Lagrange's interpolation formula)
Q.22 Derive Newton's divided difference formula.
Q.23 Use Newton's divided difference method to obtain y at x=2 from the given data.

x	1	3	4	6
Y	4	7	8	11

Q.24 Use Newton's divided difference method to obtain f (3) from the following table.

x	0	1	2	4	5	6
f(x)	1	14	15	5	6	19

Q.25 Derive Quadrature formula for numerical integration.
Q.26 Derive Trapezoidal rule for numerical integration.
Q.27 Derive Simpson's (1/3)th rule numerical integration.
Q.28 Derive Simpson's (3/8)th rule numerical integration.
Q.29 Evaluate $\int \cos dx$ using $h = 0.2$ using Trapezoidal rule between the limits 0 & 1.
Q.30 Evaluate $\int (1 + e^{-x} \sin 4x)\, dx$ using $h = 0.2$ using Simpson's (1/3)th rule between the limits 0 & 1.

Q.31 If $f(0) = 0$, $f(1) = 2$, $f(2) = 6$ and $f(3) = 12$ Evaluate $\int f(x)\, dx$ by Simpson's (3/8)th rule.
Q.32 Write down formula for Error in Trapezoidal rule.
Q.33 Write down formula for Error in Simpson's (1/3)th rule.
Q.34 Write down formula for Error in Simpson's (3/8)th rule.
Q.35 Solve $\frac{dy}{dx} = -2y$; $y(0) = 1$ Using Euler's method. Find $y(0.1)$.

Q.36 $dy/dx = xy$ where $x_0 = 0$, $y_0 = 1$ Take $h = 0.1$ Find $y_{0.1}, y_{0.2}, y_{0.3}, y_{0.4}$ Use Euler's method.
Q.37 Determine the value of y when $x = 0.1$ by Euler's modified method
Given that $dy/dx = x^2 + y$ with $y(0) = 0.94$.

Q.38 Using Runge-Kutta Method of fourth order to solve $dy/dx = y - x$ where $y(0) = 2$
Obtain $y(0.1)$, $y(0.2)$. Take $h = 0.1$

Q.39 For the difference equation $dy/dx = y - x$; $x_0 = 0$, $y_0 = 2$ Take $h = 0.1$
Using Runge-Kutta Method of second order find $y_{0.1}, y_{0.2}$

Q.40 Derive formula for Euler's Method.

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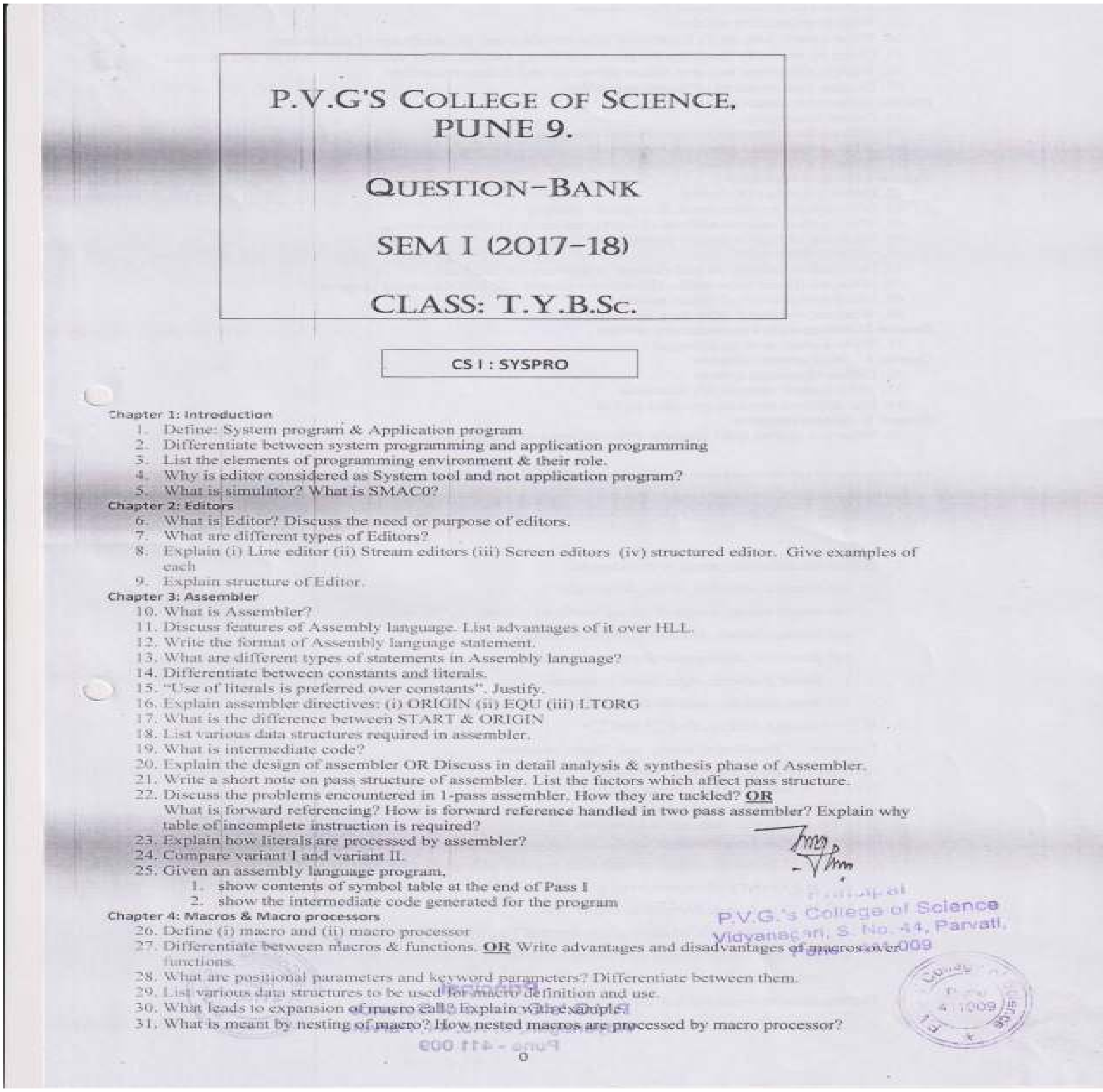
T.Y. Question Bank Sem-I:



P.V.G'S COLLEGE OF SCIENCE, PUNE 9.

QUESTION–BANK

SEM I (2017–18)

CLASS: T.Y.B.Sc.

CS I : SYSPRO

Chapter 1: Introduction

1. Define: System program & Application program
2. Differentiate between system programming and application programming
3. List the elements of programming environment & their role.
4. Why is editor considered as System tool and not application program?
5. What is simulator? What is SMAC0?

Chapter 2: Editors

6. What is Editor? Discuss the need or purpose of editors.
7. What are different types of Editors?
8. Explain (i) Line editor (ii) Stream editors (iii) Screen editors (iv) structured editor. Give examples of each
9. Explain structure of Editor.

Chapter 3: Assembler

10. What is Assembler?
11. Discuss features of Assembly language. List advantages of it over HLL.
12. Write the format of Assembly language statement.
13. What are different types of statements in Assembly language?
14. Differentiate between constants and literals.
15. "Use of literals is preferred over constants". Justify.
16. Explain assembler directives: (i) ORIGIN (ii) EQU (iii) LTORG
17. What is the difference between START & ORIGIN
18. List various data structures required in assembler.
19. What is intermediate code?
20. Explain the design of assembler OR Discuss in detail analysis & synthesis phase of Assembler.
21. Write a short note on pass structure of assembler. List the factors which affect pass structure.
22. Discuss the problems encountered in 1-pass assembler. How they are tackled? **OR** What is forward referencing? How is forward reference handled in two pass assembler? Explain why table of incomplete instruction is required?
23. Explain how literals are processed by assembler?
24. Compare variant I and variant II.
25. Given an assembly language program,
    1. show contents of symbol table at the end of Pass I
    2. show the intermediate code generated for the program

Chapter 4: Macros & Macro processors

26. Define (i) macro and (ii) macro processor
27. Differentiate between macros & functions. **OR** Write advantages and disadvantages of macros over functions.
28. What are positional parameters and keyword parameters? Differentiate between them.
29. List various data structures to be used for macro definition and use.
30. What leads to expansion of macro call? Explain with example.
31. What is meant by nesting of macro? How nested macros are processed by macro processor?

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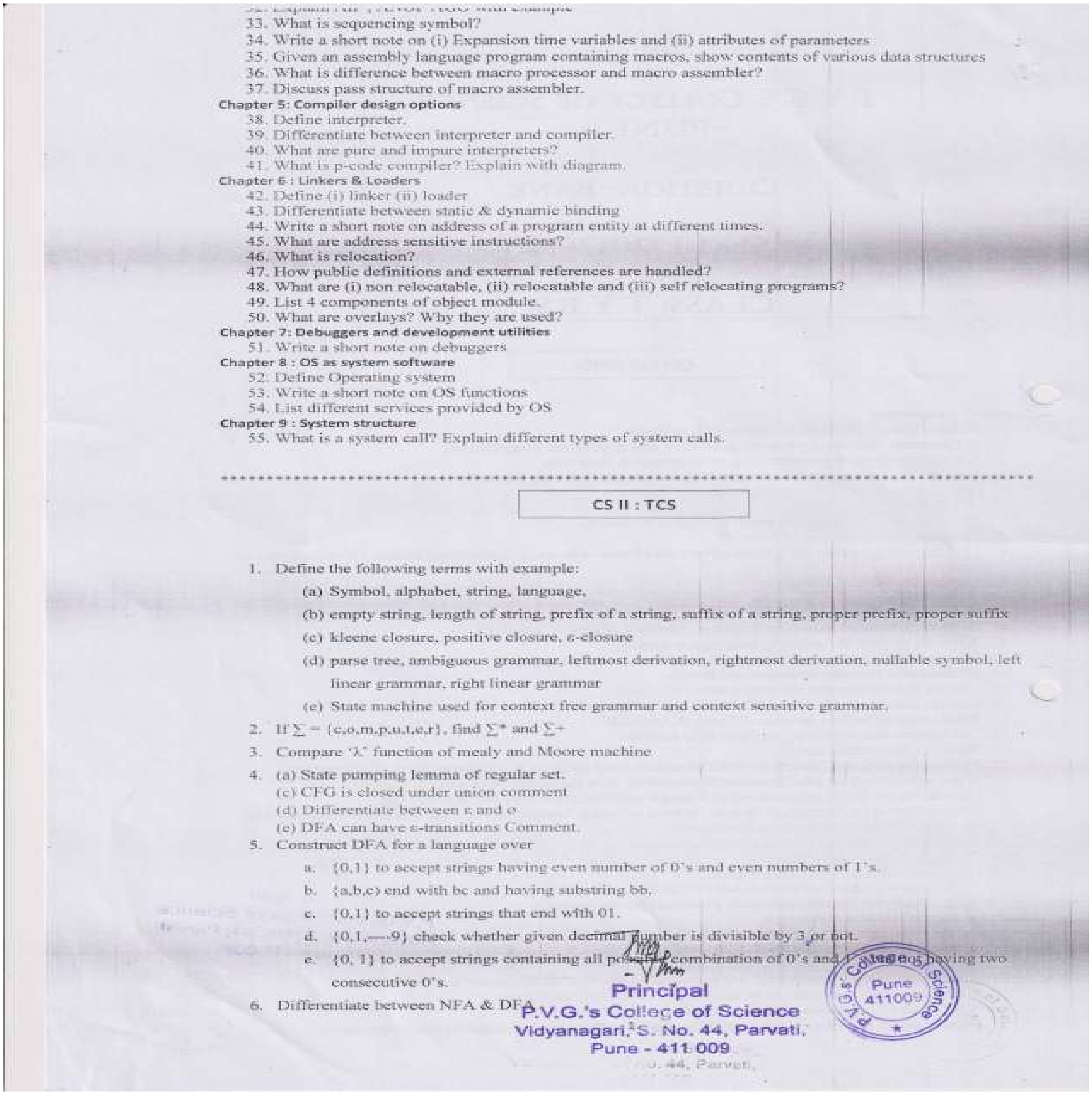

33. What is sequencing symbol?
34. Write a short note on (i) Expansion time variables and (ii) attributes of parameters
35. Given an assembly language program containing macros, show contents of various data structures
36. What is difference between macro processor and macro assembler?
37. Discuss pass structure of macro assembler.

Chapter 5: Compiler design options

38. Define interpreter.
39. Differentiate between interpreter and compiler.
40. What are pure and impure interpreters?
41. What is p-code compiler? Explain with diagram.

Chapter 6 : Linkers & Loaders

42. Define (i) linker (ii) loader
43. Differentiate between static & dynamic binding
44. Write a short note on address of a program entity at different times.
45. What are address sensitive instructions?
46. What is relocation?
47. How public definitions and external references are handled?
48. What are (i) non relocatable, (ii) relocatable and (iii) self relocating programs?
49. List 4 components of object module.
50. What are overlays? Why they are used?

Chapter 7: Debuggers and development utilities

51. Write a short note on debuggers

Chapter 8 : OS as system software

52. Define Operating system
53. Write a short note on OS functions
54. List different services provided by OS

Chapter 9 : System structure

55. What is a system call? Explain different types of system calls.

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CS II : TCS

1. Define the following terms with example:
    - (a) Symbol, alphabet, string, language,
    - (b) empty string, length of string, prefix of a string, suffix of a string, proper prefix, proper suffix
    - (c) kleene closure, positive closure, ε-closure
    - (d) parse tree, ambiguous grammar, leftmost derivation, rightmost derivation, nullable symbol, left linear grammar, right linear grammar
    - (e) State machine used for context free grammar and context sensitive grammar.
2. If $\sum = \{c,o,m,p,u,t,e,r\}$, find $\sum^*$ and $\sum^+$
3. Compare 'λ' function of mealy and Moore machine
4. (a) State pumping lemma of regular set.
    - (c) CFG is closed under union comment
    - (d) Differentiate between ε and ø
    - (e) DFA can have ε-transitions Comment.
5. Construct DFA for a language over
    - a. {0,1} to accept strings having even number of 0's and even numbers of 1's.
    - b. {a,b,c} end with bc and having substring bb.
    - c. {0,1} to accept strings that end with 01.
    - d. {0,1,—9} check whether given decimal number is divisible by 3 or not.
    - e. {0, 1} to accept strings containing all possible combination of 0's and 1's but not having two consecutive 0's.
6. Differentiate between NFA & DFA.

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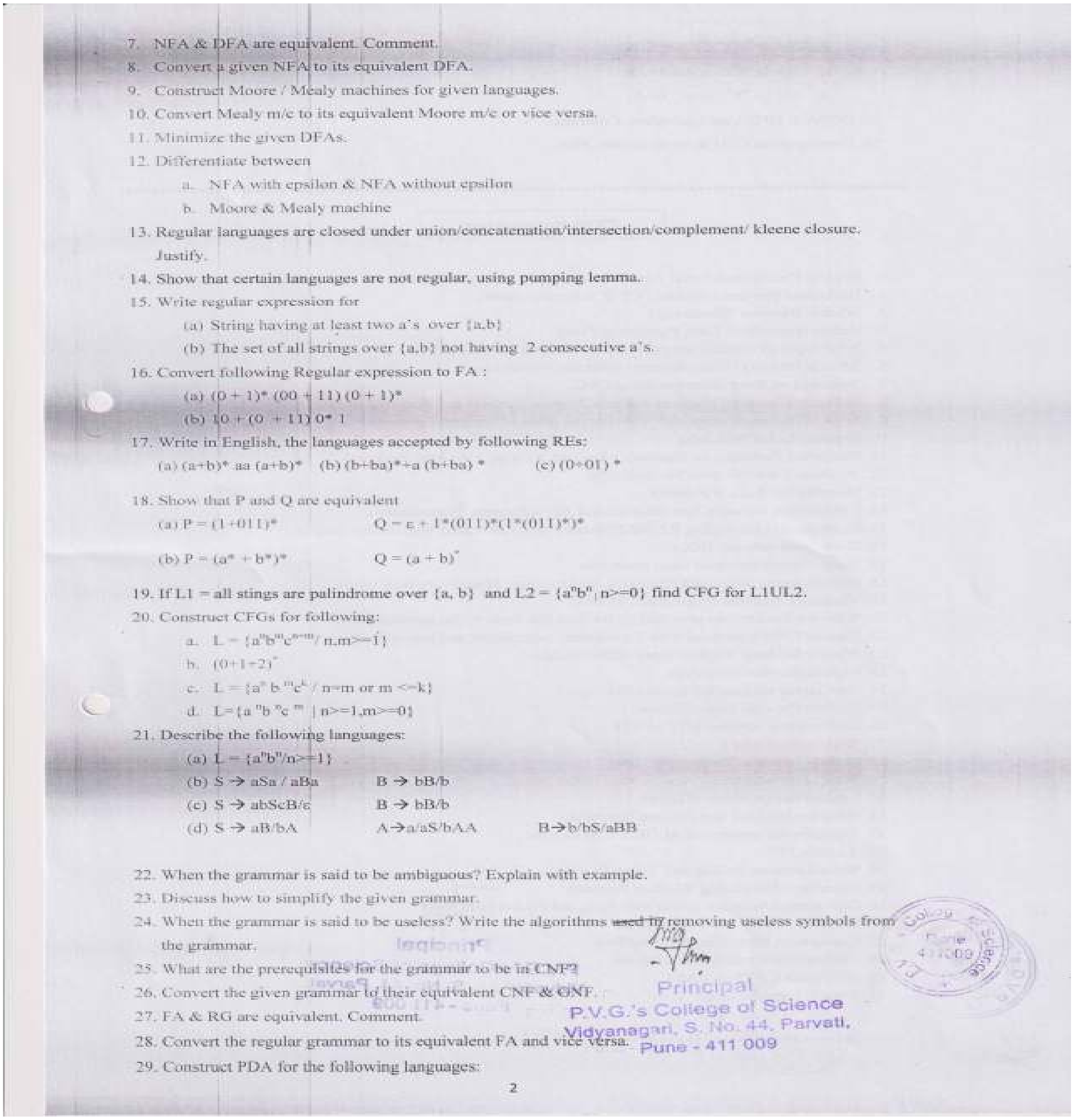

7. NFA & DFA are equivalent. Comment.
8. Convert a given NFA to its equivalent DFA.
9. Construct Moore / Mealy machines for given languages.
10. Convert Mealy m/c to its equivalent Moore m/c or vice versa.
11. Minimize the given DFAs.
12. Differentiate between
    a. NFA with epsilon & NFA without epsilon
    b. Moore & Mealy machine
13. Regular languages are closed under union/concatenation/intersection/complement/ kleene closure. Justify.
14. Show that certain languages are not regular, using pumping lemma.
15. Write regular expression for
    (a) String having at least two a's over {a,b}
    (b) The set of all strings over {a,b} not having 2 consecutive a's.
16. Convert following Regular expression to FA :
    (a) $(0 + 1)^* (00 + 11) (0 + 1)^*$
    (b) $10 + (0 + 11) 0^* 1$
17. Write in English, the languages accepted by following REs:
    (a) $(a+b)^* aa (a+b)^*$ (b) $(b+ba)^*+a (b+ba)^*$ (c) $(0+01)^*$

18. Show that P and Q are equivalent
    (a) $P = (1+011)^*$ $Q = \varepsilon + 1^*(011)^*(1^*(011)^*)^*$

    (b) $P = (a^* + b^*)^*$ $Q = (a + b)^*$

19. If L1 = all stings are palindrome over {a, b} and L2 = $\{a^n b^n \mid n>=0\}$ find CFG for L1UL2.
20. Construct CFGs for following:
    a. $L = \{a^n b^m c^{n+m} / n,m>=1\}$
    b. $(0+1+2)^*$
    c. $L = \{a^n b^m c^k / n=m \text{ or } m <=k\}$
    d. $L=\{a^n b^n c^m \mid n>=1, m>=0\}$
21. Describe the following languages:
    (a) $L = \{a^n b^n / n>=1\}$
    (b) S → aSa / aBa B → bB/b
    (c) S → abScB/ε B → bB/b
    (d) S → aB/bA A→a/aS/bAA B→b/bS/aBB

22. When the grammar is said to be ambiguous? Explain with example.
23. Discuss how to simplify the given grammar.
24. When the grammar is said to be useless? Write the algorithms ~~used in~~ removing useless symbols from the grammar.
25. What are the prerequisites for the grammar to be in CNF?
26. Convert the given grammar to their equivalent CNF & GNF.
27. FA & RG are equivalent. Comment.
28. Convert the regular grammar to its equivalent FA and vice versa.
29. Construct PDA for the following languages:

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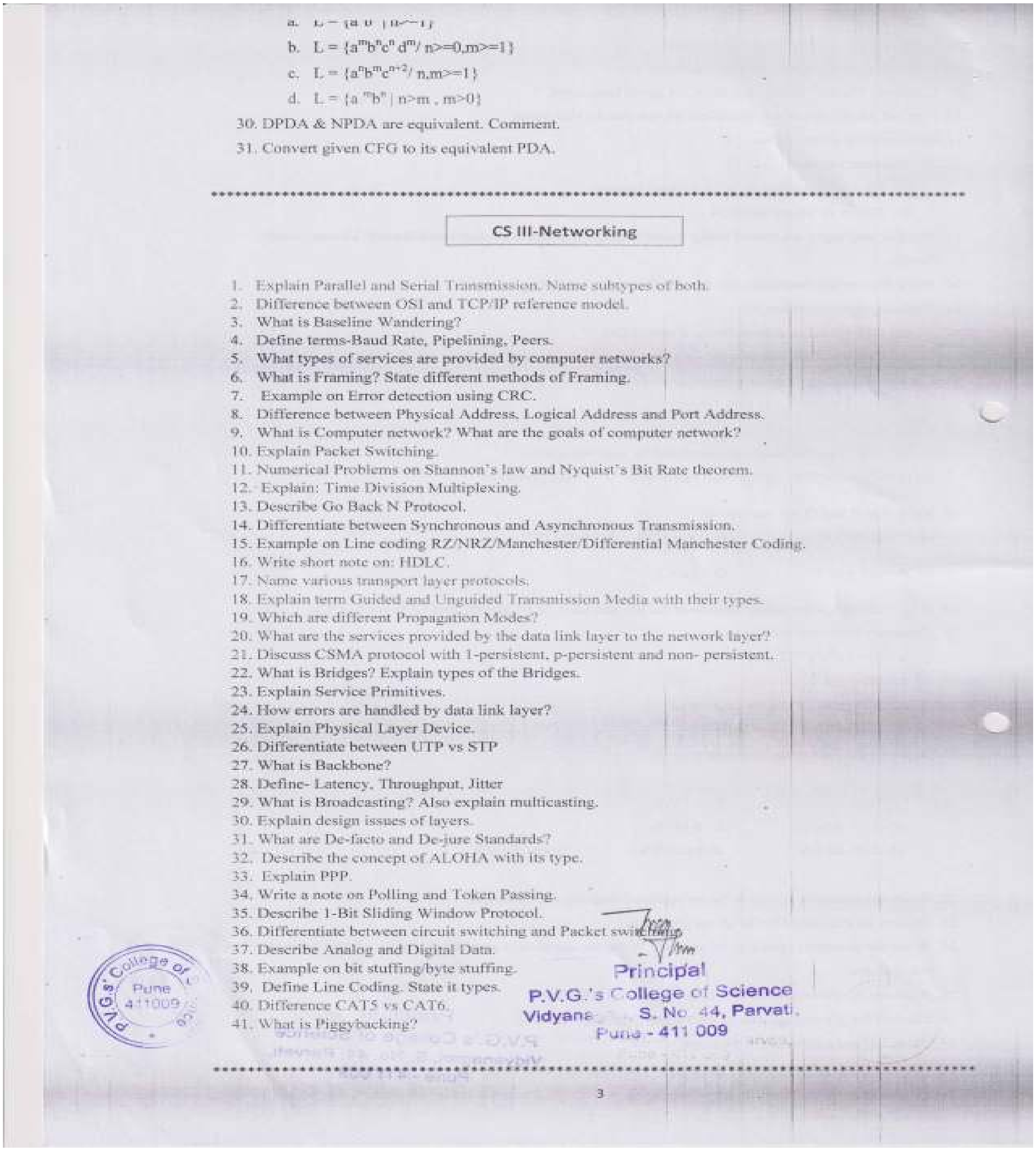

a. L = {a b | n>=1}
b. L = $\{a^m b^n c^n d^m / n>=0, m>=1\}$
c. L = $\{a^n b^m c^{n+2} / n,m>=1\}$
d. L = $\{a^m b^n \mid n>m , m>0\}$

30. DPDA & NPDA are equivalent. Comment.
31. Convert given CFG to its equivalent PDA.

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CS III-Networking

1. Explain Parallel and Serial Transmission. Name subtypes of both.
2. Difference between OSI and TCP/IP reference model.
3. What is Baseline Wandering?
4. Define terms-Baud Rate, Pipelining, Peers.
5. What types of services are provided by computer networks?
6. What is Framing? State different methods of Framing.
7. Example on Error detection using CRC.
8. Difference between Physical Address, Logical Address and Port Address.
9. What is Computer network? What are the goals of computer network?
10. Explain Packet Switching.
11. Numerical Problems on Shannon's law and Nyquist's Bit Rate theorem.
12. Explain: Time Division Multiplexing.
13. Describe Go Back N Protocol.
14. Differentiate between Synchronous and Asynchronous Transmission.
15. Example on Line coding RZ/NRZ/Manchester/Differential Manchester Coding.
16. Write short note on: HDLC.
17. Name various transport layer protocols.
18. Explain term Guided and Unguided Transmission Media with their types.
19. Which are different Propagation Modes?
20. What are the services provided by the data link layer to the network layer?
21. Discuss CSMA protocol with 1-persistent, p-persistent and non- persistent.
22. What is Bridges? Explain types of the Bridges.
23. Explain Service Primitives.
24. How errors are handled by data link layer?
25. Explain Physical Layer Device.
26. Differentiate between UTP vs STP
27. What is Backbone?
28. Define- Latency, Throughput, Jitter
29. What is Broadcasting? Also explain multicasting.
30. Explain design issues of layers.
31. What are De-facto and De-jure Standards?
32. Describe the concept of ALOHA with its type.
33. Explain PPP.
34. Write a note on Polling and Token Passing.
35. Describe 1-Bit Sliding Window Protocol.
36. Differentiate between circuit switching and Packet switching.
37. Describe Analog and Digital Data.
38. Example on bit stuffing/byte stuffing.
39. Define Line Coding. State it types.
40. Difference CAT5 vs CAT6.
41. What is Piggybacking?

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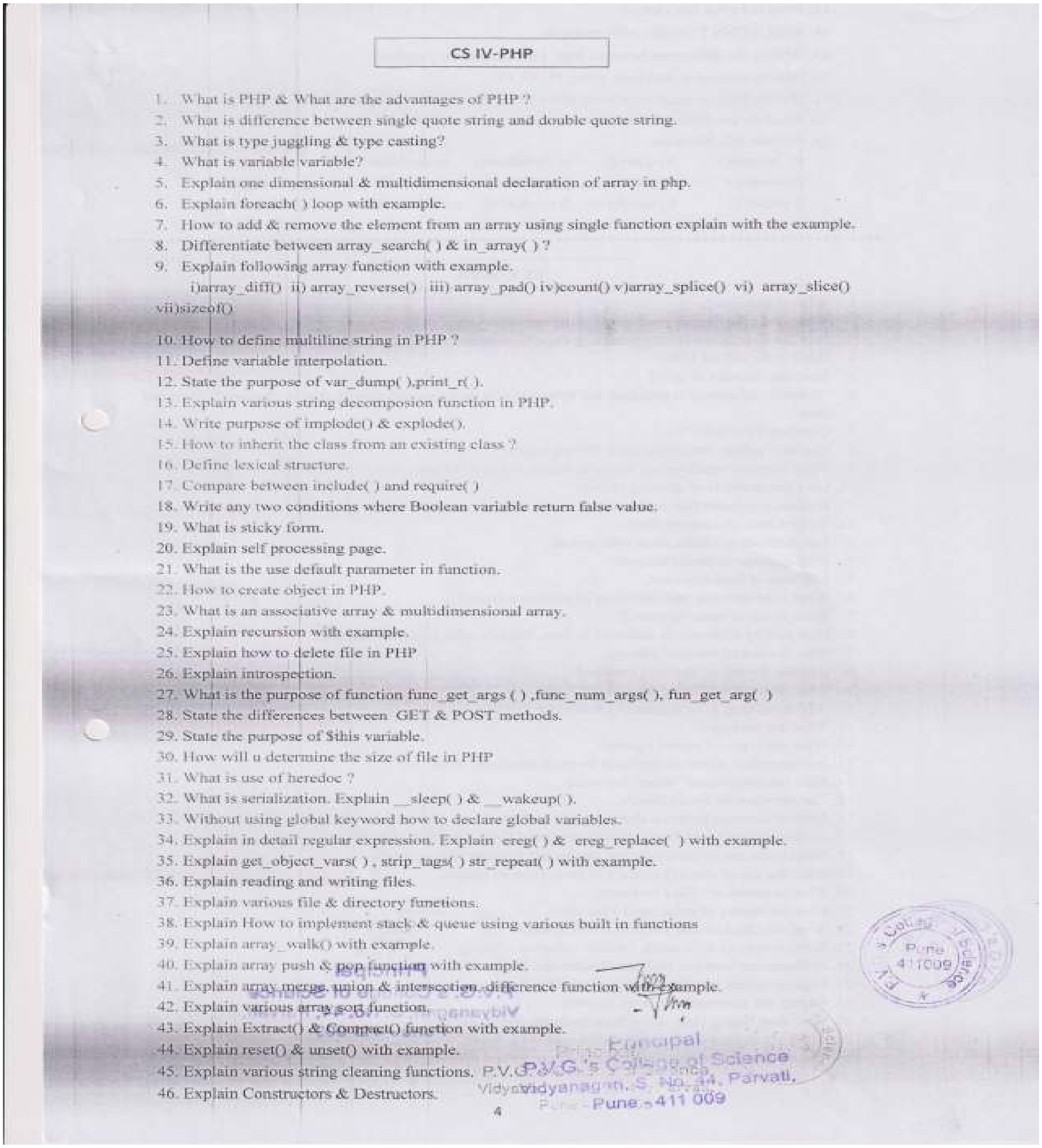

CS IV-PHP

1. What is PHP & What are the advantages of PHP ?
2. What is difference between single quote string and double quote string.
3. What is type juggling & type casting?
4. What is variable variable?
5. Explain one dimensional & multidimensional declaration of array in php.
6. Explain foreach( ) loop with example.
7. How to add & remove the element from an array using single function explain with the example.
8. Differentiate between array_search( ) & in_array( ) ?
9. Explain following array function with example.
   i)array_diff() ii) array_reverse() iii) array_pad() iv)count() v)array_splice() vi) array_slice() vii)sizeof()
10. How to define multiline string in PHP ?
11. Define variable interpolation.
12. State the purpose of var_dump( ),print_r( ).
13. Explain various string decomposion function in PHP.
14. Write purpose of implode() & explode().
15. How to inherit the class from an existing class ?
16. Define lexical structure.
17. Compare between include( ) and require( )
18. Write any two conditions where Boolean variable return false value.
19. What is sticky form.
20. Explain self processing page.
21. What is the use default parameter in function.
22. How to create object in PHP.
23. What is an associative array & multidimensional array.
24. Explain recursion with example.
25. Explain how to delete file in PHP
26. Explain introspection.
27. What is the purpose of function func_get_args ( ) ,func_num_args( ), fun_get_arg( )
28. State the differences between GET & POST methods.
29. State the purpose of $this variable.
30. How will u determine the size of file in PHP
31. What is use of heredoc ?
32. What is serialization. Explain __sleep( ) & __wakeup( ).
33. Without using global keyword how to declare global variables.
34. Explain in detail regular expression. Explain ereg( ) & ereg_replace( ) with example.
35. Explain get_object_vars( ) , strip_tags( ) str_repeat( ) with example.
36. Explain reading and writing files.
37. Explain various file & directory functions.
38. Explain How to implement stack & queue using various built in functions
39. Explain array_walk() with example.
40. Explain array push & pop function with example.
41. Explain array merge, union & intersection, difference function with example.
42. Explain various array sort function.
43. Explain Extract() & Compact() function with example.
44. Explain reset() & unset() with example.
45. Explain various string cleaning functions.
46. Explain Constructors & Destructors.

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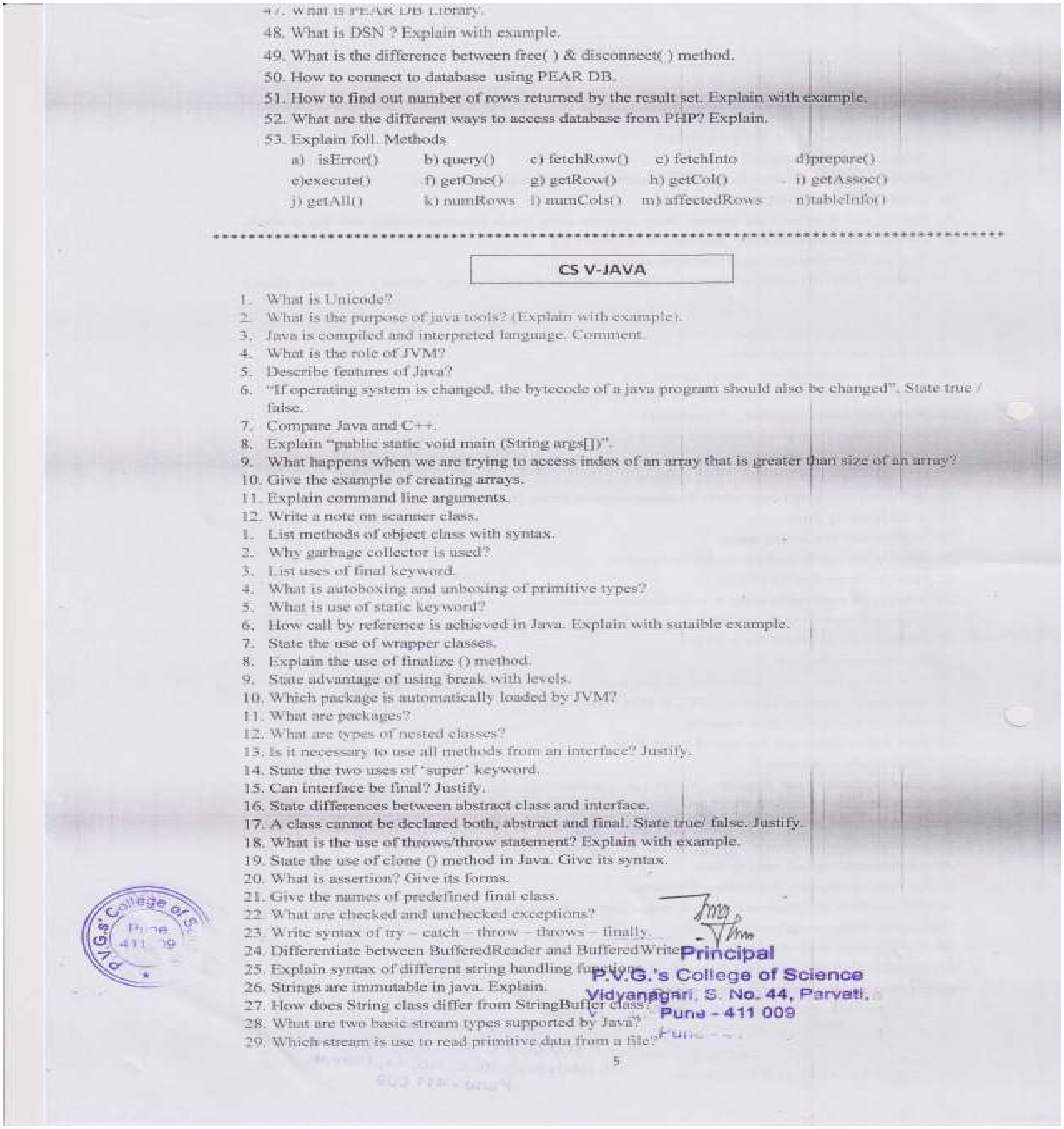

47. What is PEAR DB Library.
48. What is DSN ? Explain with example.
49. What is the difference between free( ) & disconnect( ) method.
50. How to connect to database using PEAR DB.
51. How to find out number of rows returned by the result set. Explain with example.
52. What are the different ways to access database from PHP? Explain.
53. Explain foll. Methods
    a) isError() b) query() c) fetchRow() c) fetchInto d)prepare()
    e)execute() f) getOne() g) getRow() h) getCol() i) getAssoc()
    j) getAll() k) numRows l) numCols() m) affectedRows n)tableInfo()

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CS V-JAVA

1. What is Unicode?
2. What is the purpose of java tools? (Explain with example).
3. Java is compiled and interpreted language. Comment.
4. What is the role of JVM?
5. Describe features of Java?
6. "If operating system is changed, the bytecode of a java program should also be changed". State true / false.
7. Compare Java and C++.
8. Explain "public static void main (String args[])".
9. What happens when we are trying to access index of an array that is greater than size of an array?
10. Give the example of creating arrays.
11. Explain command line arguments.
12. Write a note on scanner class.
1. List methods of object class with syntax.
2. Why garbage collector is used?
3. List uses of final keyword.
4. What is autoboxing and unboxing of primitive types?
5. What is use of static keyword?
6. How call by reference is achieved in Java. Explain with sutaible example.
7. State the use of wrapper classes.
8. Explain the use of finalize () method.
9. State advantage of using break with levels.
10. Which package is automatically loaded by JVM?
11. What are packages?
12. What are types of nested classes?
13. Is it necessary to use all methods from an interface? Justify.
14. State the two uses of 'super' keyword.
15. Can interface be final? Justify.
16. State differences between abstract class and interface.
17. A class cannot be declared both, abstract and final. State true/ false. Justify.
18. What is the use of throws/throw statement? Explain with example.
19. State the use of clone () method in Java. Give its syntax.
20. What is assertion? Give its forms.
21. Give the names of predefined final class.
22. What are checked and unchecked exceptions?
23. Write syntax of try – catch – throw – throws – finally.
24. Differentiate between BufferedReader and BufferedWriter.
25. Explain syntax of different string handling functions.
26. Strings are immutable in java. Explain.
27. How does String class differ from StringBuffer class?
28. What are two basic stream types supported by Java?
29. Which stream is use to read primitive data from a file?

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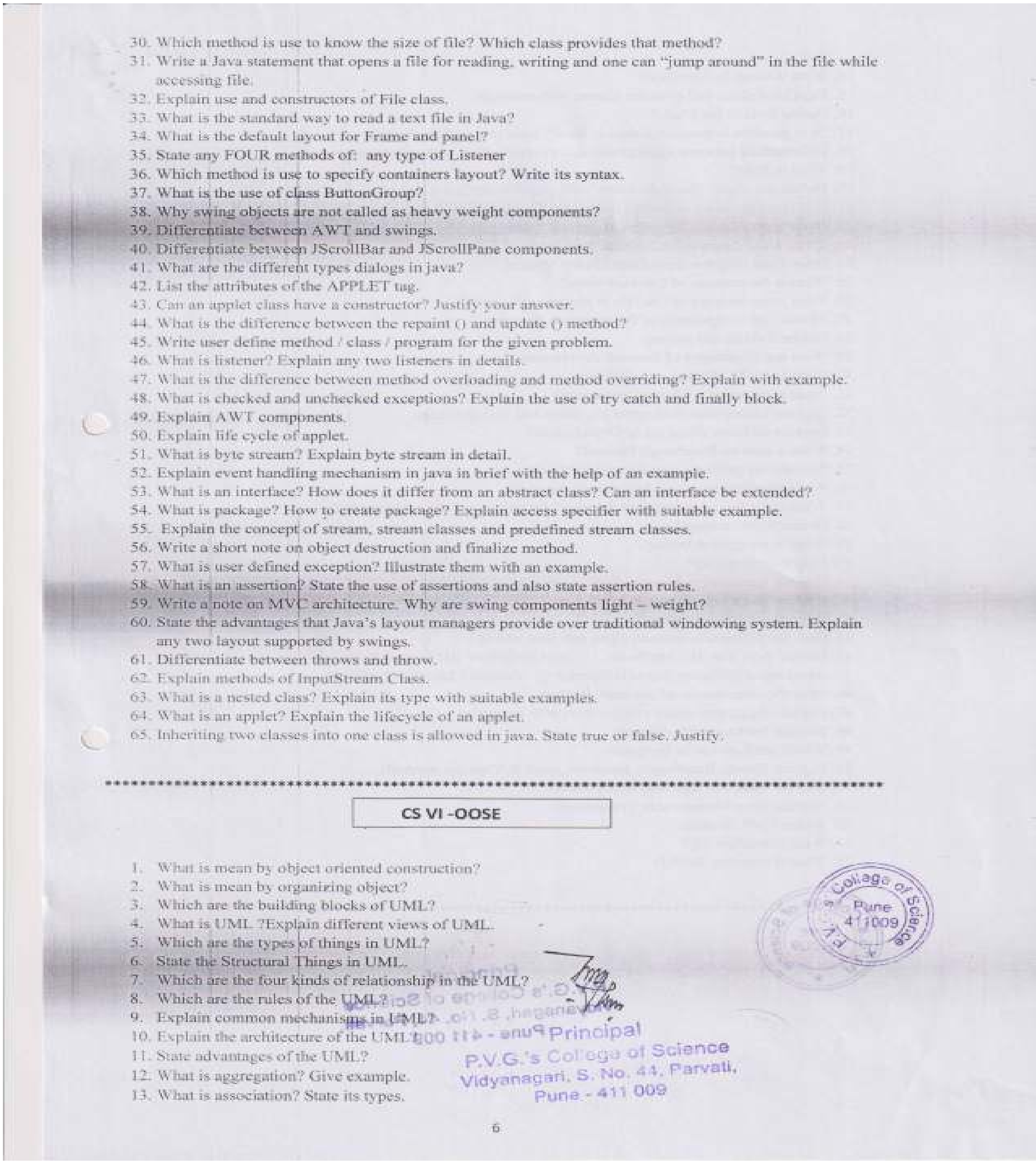

30. Which method is use to know the size of file? Which class provides that method?
31. Write a Java statement that opens a file for reading, writing and one can "jump around" in the file while accessing file.
32. Explain use and constructors of File class.
33. What is the standard way to read a text file in Java?
34. What is the default layout for Frame and panel?
35. State any FOUR methods of: any type of Listener
36. Which method is use to specify containers layout? Write its syntax.
37. What is the use of class ButtonGroup?
38. Why swing objects are not called as heavy weight components?
39. Differentiate between AWT and swings.
40. Differentiate between JScrollBar and JScrollPane components.
41. What are the different types dialogs in java?
42. List the attributes of the APPLET tag.
43. Can an applet class have a constructor? Justify your answer.
44. What is the difference between the repaint () and update () method?
45. Write user define method / class / program for the given problem.
46. What is listener? Explain any two listeners in details.
47. What is the difference between method overloading and method overriding? Explain with example.
48. What is checked and unchecked exceptions? Explain the use of try catch and finally block.
49. Explain AWT components.
50. Explain life cycle of applet.
51. What is byte stream? Explain byte stream in detail.
52. Explain event handling mechanism in java in brief with the help of an example.
53. What is an interface? How does it differ from an abstract class? Can an interface be extended?
54. What is package? How to create package? Explain access specifier with suitable example.
55. Explain the concept of stream, stream classes and predefined stream classes.
56. Write a short note on object destruction and finalize method.
57. What is user defined exception? Illustrate them with an example.
58. What is an assertion? State the use of assertions and also state assertion rules.
59. Write a note on MVC architecture. Why are swing components light – weight?
60. State the advantages that Java's layout managers provide over traditional windowing system. Explain any two layout supported by swings.
61. Differentiate between throws and throw.
62. Explain methods of InputStream Class.
63. What is a nested class? Explain its type with suitable examples.
64. What is an applet? Explain the lifecycle of an applet.
65. Inheriting two classes into one class is allowed in java. State true or false. Justify.

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CS VI -OOSE

1. What is mean by object oriented construction?
2. What is mean by organizing object?
3. Which are the building blocks of UML?
4. What is UML ?Explain different views of UML.
5. Which are the types of things in UML?
6. State the Structural Things in UML.
7. Which are the four kinds of relationship in the UML?
8. Which are the rules of the UML?
9. Explain common mechanisms in UML?
10. Explain the architecture of the UML?
11. State advantages of the UML?
12. What is aggregation? Give example.
13. What is association? State its types.

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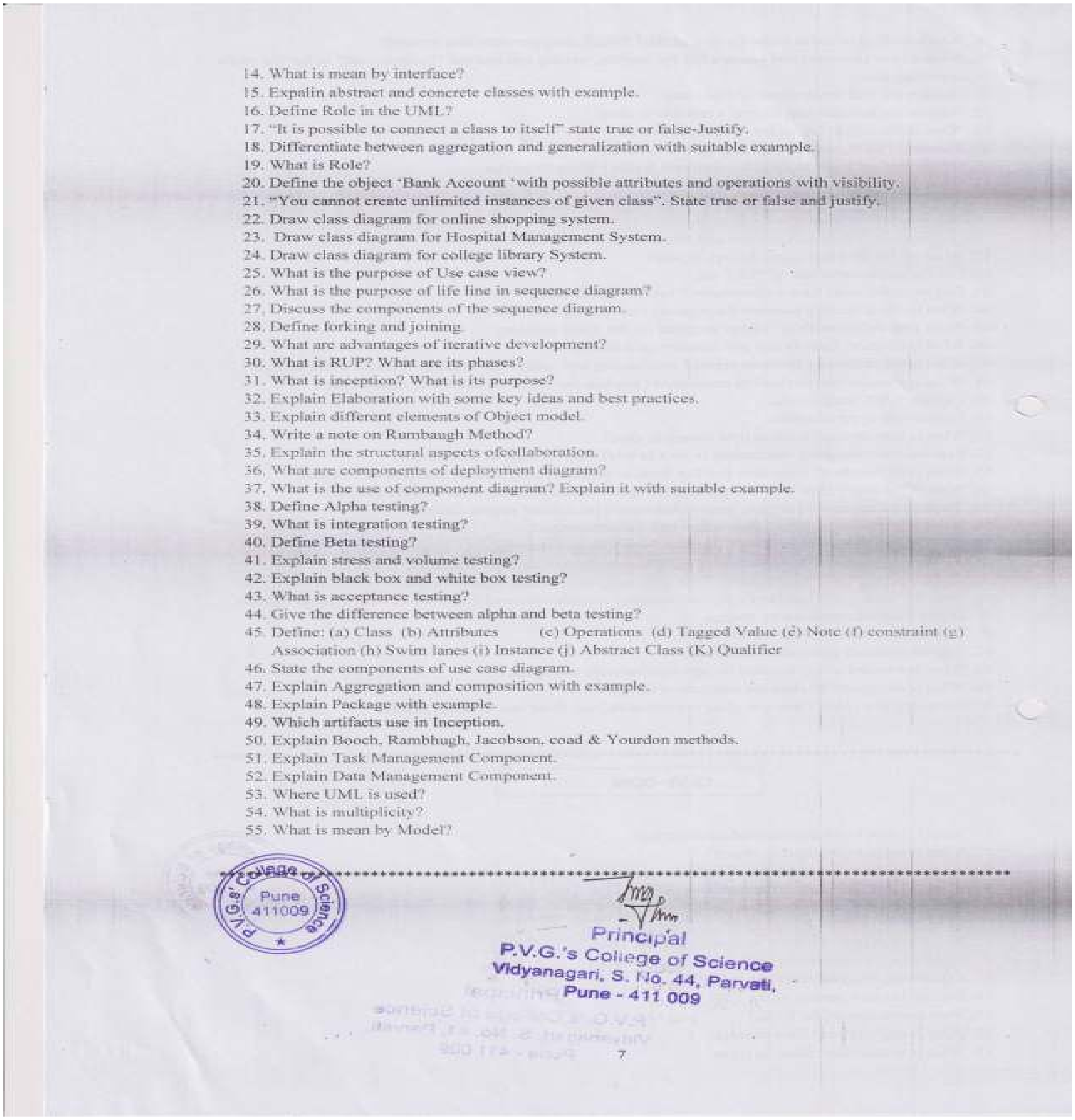

14. What is mean by interface?
15. Expalin abstract and concrete classes with example.
16. Define Role in the UML?
17. "It is possible to connect a class to itself" state true or false-Justify.
18. Differentiate between aggregation and generalization with suitable example.
19. What is Role?
20. Define the object 'Bank Account 'with possible attributes and operations with visibility.
21. "You cannot create unlimited instances of given class". State true or false and justify.
22. Draw class diagram for online shopping system.
23. Draw class diagram for Hospital Management System.
24. Draw class diagram for college library System.
25. What is the purpose of Use case view?
26. What is the purpose of life line in sequence diagram?
27. Discuss the components of the sequence diagram.
28. Define forking and joining.
29. What are advantages of iterative development?
30. What is RUP? What are its phases?
31. What is inception? What is its purpose?
32. Explain Elaboration with some key ideas and best practices.
33. Explain different elements of Object model.
34. Write a note on Rumbaugh Method?
35. Explain the structural aspects ofcollaboration.
36. What are components of deployment diagram?
37. What is the use of component diagram? Explain it with suitable example.
38. Define Alpha testing?
39. What is integration testing?
40. Define Beta testing?
41. Explain stress and volume testing?
42. Explain black box and white box testing?
43. What is acceptance testing?
44. Give the difference between alpha and beta testing?
45. Define: (a) Class (b) Attributes (c) Operations (d) Tagged Value (e) Note (f) constraint (g) Association (h) Swim lanes (i) Instance (j) Abstract Class (K) Qualifier
46. State the components of use case diagram.
47. Explain Aggregation and composition with example.
48. Explain Package with example.
49. Which artifacts use in Inception.
50. Explain Booch, Rambhugh, Jacobson, coad & Yourdon methods.
51. Explain Task Management Component.
52. Explain Data Management Component.
53. Where UML is used?
54. What is multiplicity?
55. What is mean by Model?

* * *

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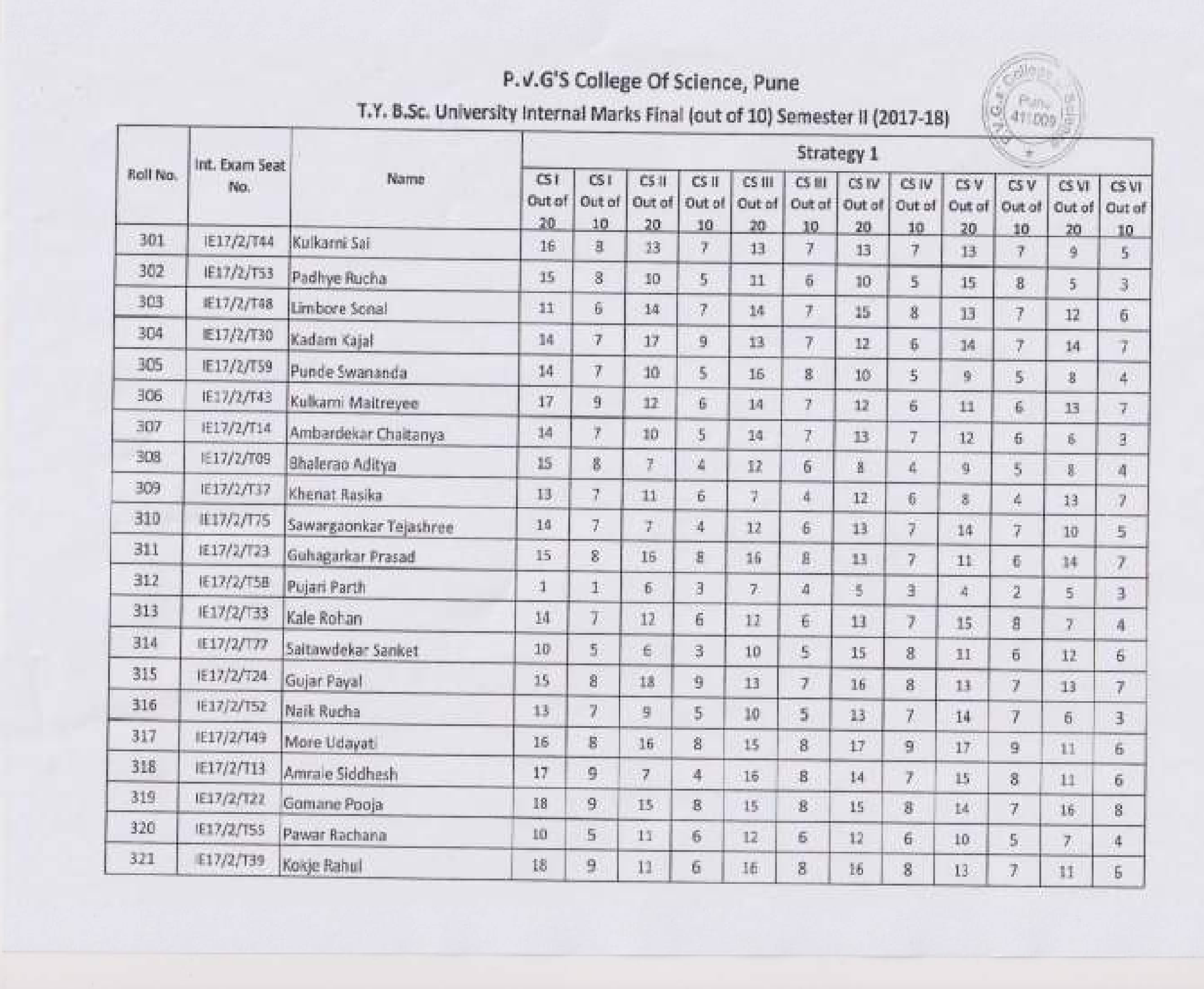
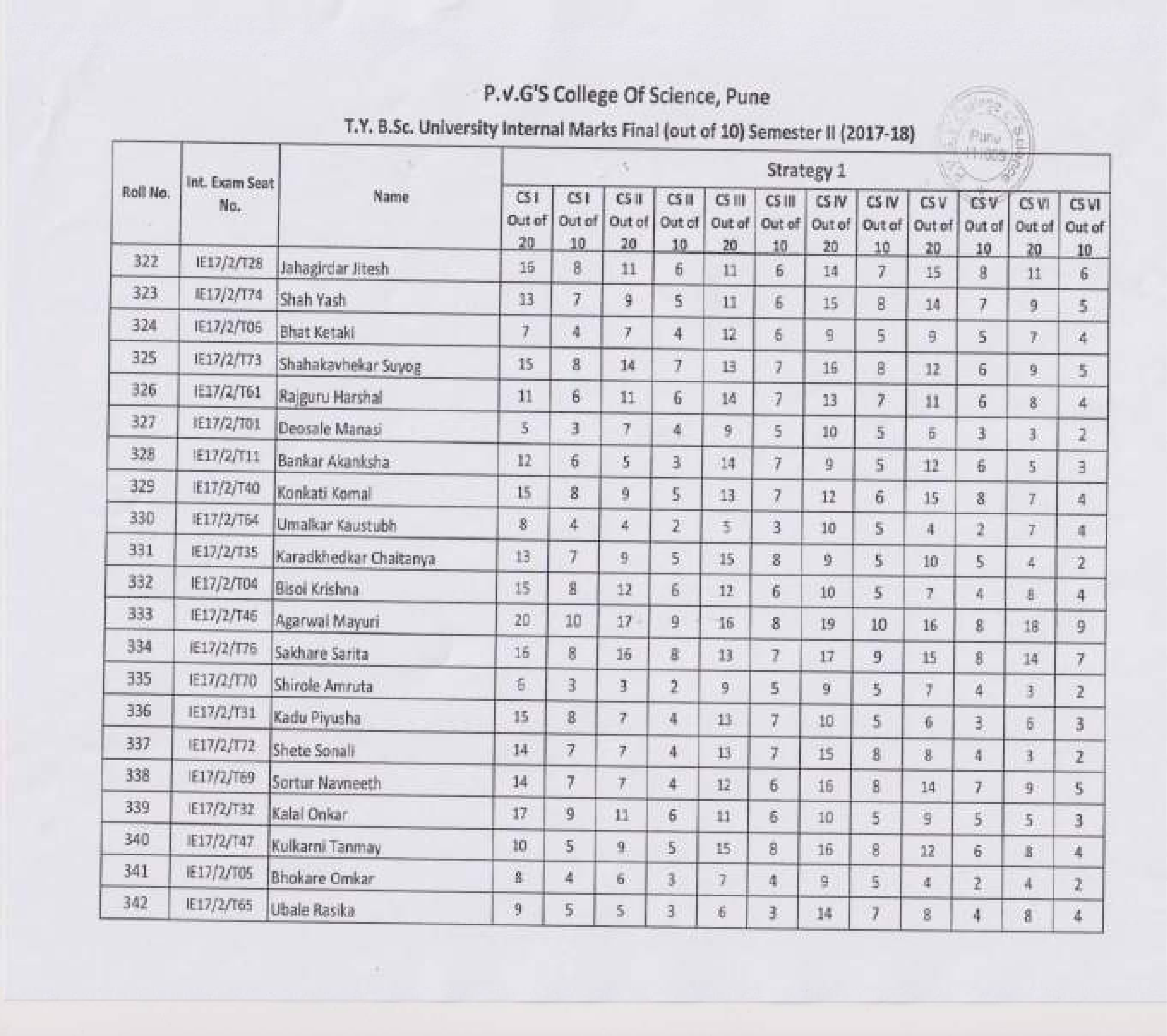
T. Y. Internal Examination marks sem-II evaluation by strategy 1:



P.V.G'S College Of Science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

Roll No.	Int. Exam Seat No.	Name	Strategy 1											
			CS I Out of 20	CS I Out of 10	CS II Out of 20	CS II Out of 10	CS III Out of 20	CS III Out of 10	CS IV Out of 20	CS IV Out of 10	CS V Out of 20	CS V Out of 10	CS VI Out of 20	CS VI Out of 10
301	IE17/2/T44	Kulkarni Sai	16	8	13	7	13	7	13	7	13	7	9	5
302	IE17/2/T53	Padhye Rucha	15	8	10	5	11	6	10	5	15	8	5	3
303	IE17/2/T48	Limbore Sonal	11	6	14	7	14	7	15	8	13	7	12	6
304	IE17/2/T30	Kadam Kajal	14	7	17	9	13	7	12	6	14	7	14	7
305	IE17/2/T59	Punde Swananda	14	7	10	5	16	8	10	5	9	5	8	4
306	IE17/2/T43	Kulkarni Maitreyee	17	9	12	6	14	7	12	6	11	6	13	7
307	IE17/2/T14	Ambardekar Chaitanya	14	7	10	5	14	7	13	7	12	6	6	3
308	IE17/2/T09	Bhalerao Aditya	15	8	7	4	12	6	8	4	9	5	8	4
309	IE17/2/T37	Khenat Rasika	13	7	11	6	7	4	12	6	8	4	13	7
310	IE17/2/T75	Sawargaonkar Tejashree	14	7	7	4	12	6	13	7	14	7	10	5
311	IE17/2/T23	Guhagarkar Prasad	15	8	16	8	16	8	13	7	11	6	14	7
312	IE17/2/T58	Pujari Parth	1	1	6	3	7	4	5	3	4	2	5	3
313	IE17/2/T33	Kale Rohan	14	7	12	6	12	6	13	7	15	8	7	4
314	IE17/2/T77	Saitawdekar Sanket	10	5	6	3	10	5	15	8	11	6	12	6
315	IE17/2/T24	Gujar Payal	15	8	18	9	13	7	16	8	13	7	13	7
316	IE17/2/T52	Naik Rucha	13	7	9	5	10	5	13	7	14	7	6	3
317	IE17/2/T49	More Udayati	16	8	16	8	15	8	17	9	17	9	11	6
318	IE17/2/T13	Amrale Siddhesh	17	9	7	4	16	8	14	7	15	8	11	6
319	IE17/2/T22	Gomane Pooja	18	9	15	8	15	8	15	8	14	7	16	8
320	IE17/2/T55	Pawar Rachana	10	5	11	6	12	6	12	6	10	5	7	4
321	IE17/2/T39	Kokje Rahul	18	9	11	6	16	8	16	8	13	7	11	6



P.V.G'S College Of Science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

Roll No.	Int. Exam Seat No.	Name	Strategy 1											
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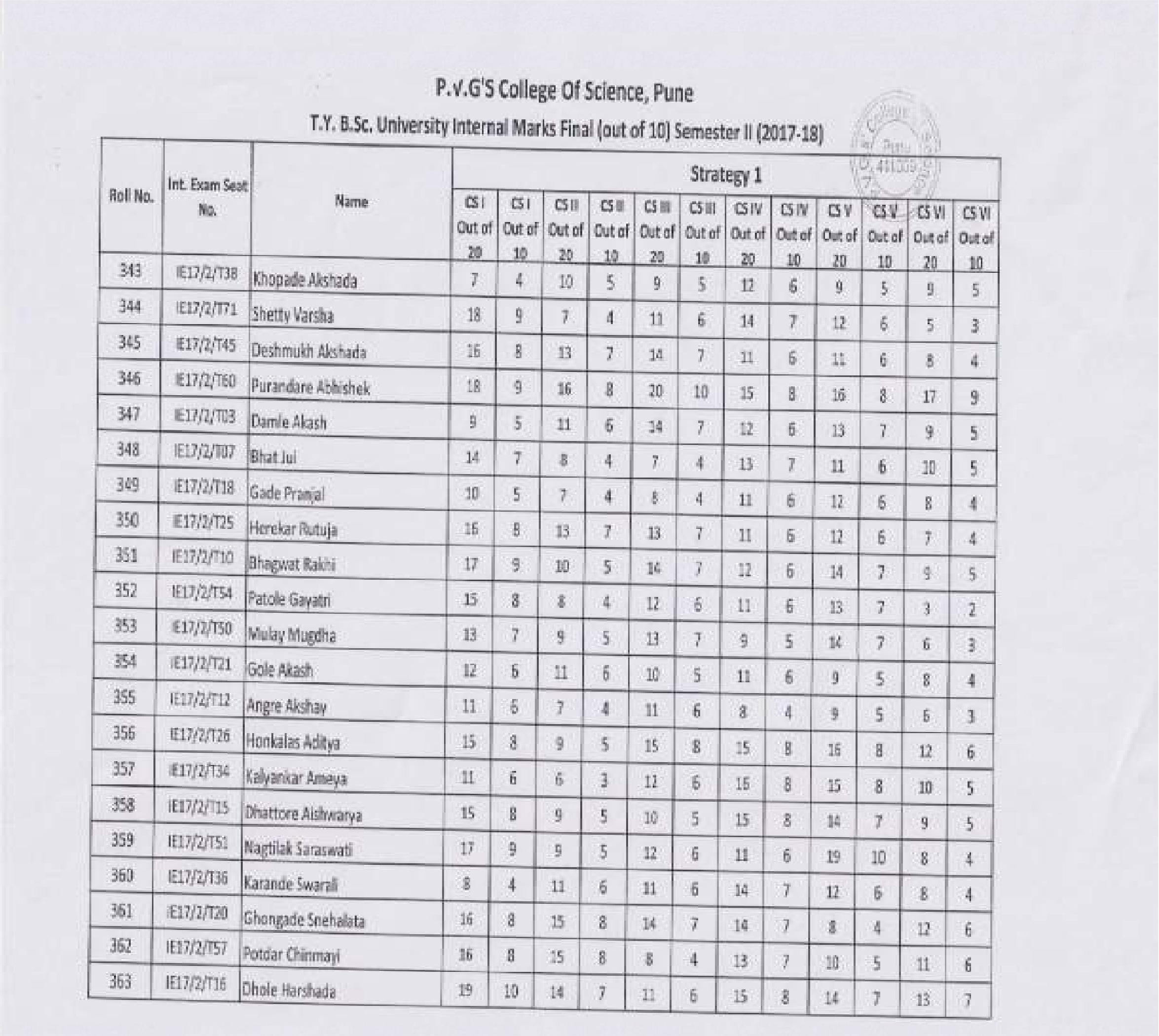
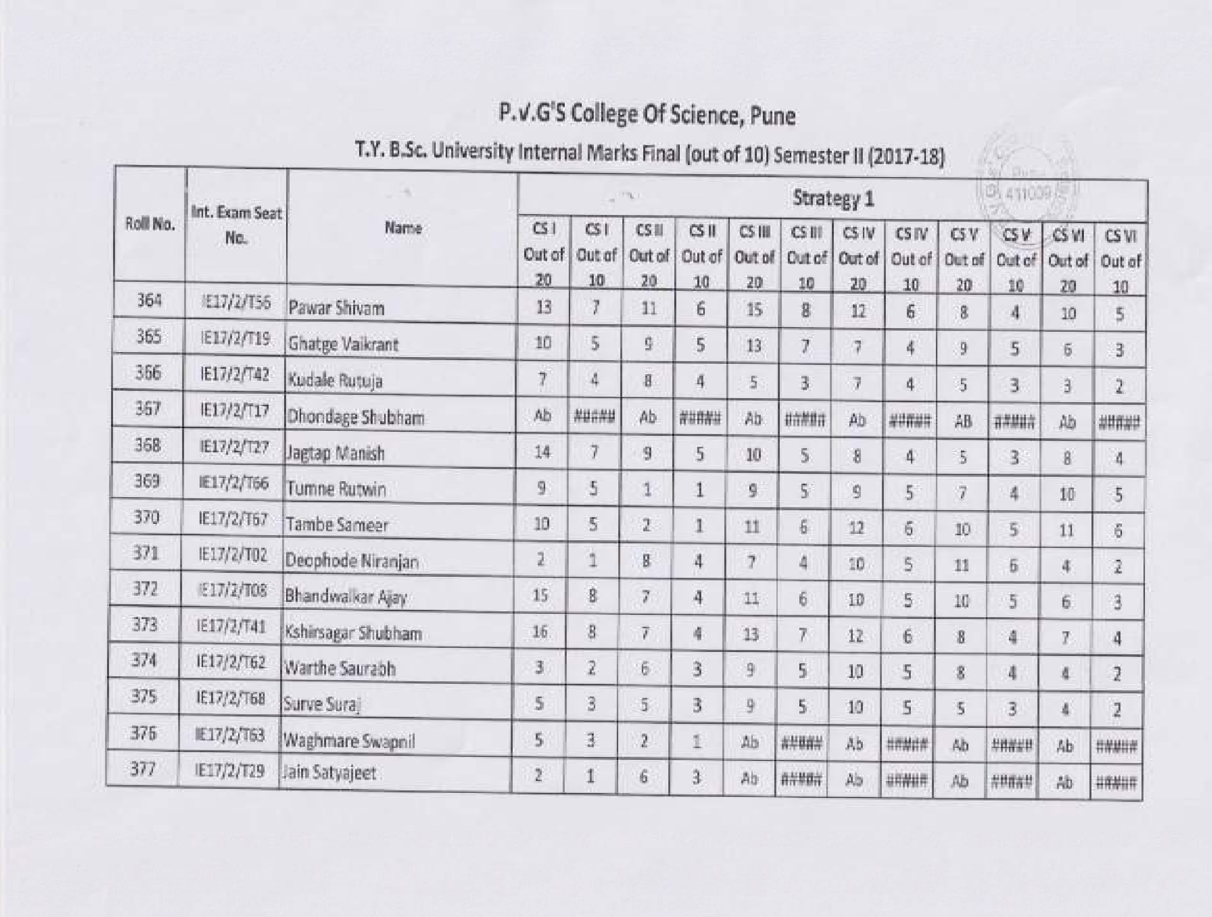
322	IE17/2/T28	Jahagirdar Jitesh	16	8	11	6	11	6	14	7	15	8	11	6
323	IE17/2/T74	Shah Yash	13	7	9	5	11	6	15	8	14	7	9	5
324	IE17/2/T06	Bhat Ketaki	7	4	7	4	12	6	9	5	9	5	7	4
325	IE17/2/T73	Shahakavhekar Suyog	15	8	14	7	13	7	16	8	12	6	9	5
326	IE17/2/T61	Rajguru Harshal	11	6	11	6	14	7	13	7	11	6	8	4
327	IE17/2/T01	Deosale Manasi	5	3	7	4	9	5	10	5	6	3	3	2
328	IE17/2/T11	Bankar Akanksha	12	6	5	3	14	7	9	5	12	6	5	3
329	IE17/2/T40	Konkati Komal	15	8	9	5	13	7	12	6	15	8	7	4
330	IE17/2/T64	Umalkar Kaustubh	8	4	4	2	5	3	10	5	4	2	7	4
331	IE17/2/T35	Karadkhedkar Chaitanya	13	7	9	5	15	8	9	5	10	5	4	2
332	IE17/2/T04	Bisoi Krishna	15	8	12	6	12	6	10	5	7	4	8	4
333	IE17/2/T46	Agarwal Mayuri	20	10	17	9	16	8	19	10	16	8	18	9
334	IE17/2/T76	Sakhare Sarita	16	8	16	8	13	7	17	9	15	8	14	7
335	IE17/2/T70	Shirole Amruta	6	3	3	2	9	5	9	5	7	4	3	2
336	IE17/2/T31	Kadu Piyusha	15	8	7	4	13	7	10	5	6	3	6	3
337	IE17/2/T72	Shete Sonali	14	7	7	4	13	7	15	8	8	4	3	2
338	IE17/2/T69	Sortur Navneeth	14	7	7	4	12	6	16	8	14	7	9	5
339	IE17/2/T32	Kalal Onkar	17	9	11	6	11	6	10	5	9	5	5	3
340	IE17/2/T47	Kulkarni Tanmay	10	5	9	5	15	8	16	8	12	6	8	4
341	IE17/2/T05	Bhokare Omkar	8	4	6	3	7	4	9	5	4	2	4	2
342	IE17/2/T65	Ubale Rasika	9	5	5	3	6	3	14	7	8	4	8	4



P.V.G'S College Of Science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

Roll No.	Int. Exam Seat No.	Name	Strategy 1											
			CS I Out of 20	CS I Out of 10	CS II Out of 20	CS II Out of 10	CS III Out of 20	CS III Out of 10	CS IV Out of 20	CS IV Out of 10	CS V Out of 20	CS V Out of 10	CS VI Out of 20	CS VI Out of 10
343	IE17/2/T38	Khopade Akshada	7	4	10	5	9	5	12	6	9	5	9	5
344	IE17/2/T71	Shetty Varsha	18	9	7	4	11	6	14	7	12	6	5	3
345	IE17/2/T45	Deshmukh Akshada	16	8	13	7	14	7	11	6	11	6	8	4
346	IE17/2/T60	Purandare Abhishek	18	9	16	8	20	10	15	8	16	8	17	9
347	IE17/2/T03	Damle Akash	9	5	11	6	14	7	12	6	13	7	9	5
348	IE17/2/T07	Bhat Jui	14	7	8	4	7	4	13	7	11	6	10	5
349	IE17/2/T18	Gade Pranjal	10	5	7	4	8	4	11	6	12	6	8	4
350	IE17/2/T25	Herekar Rutuja	16	8	13	7	13	7	11	6	12	6	7	4
351	IE17/2/T10	Bhagwat Rakhi	17	9	10	5	14	7	12	6	14	7	9	5
352	IE17/2/T54	Patole Gayatri	15	8	8	4	12	6	11	6	13	7	3	2
353	IE17/2/T50	Mulay Mugdha	13	7	9	5	13	7	9	5	14	7	6	3
354	IE17/2/T21	Gole Akash	12	6	11	6	10	5	11	6	9	5	8	4
355	IE17/2/T12	Angre Akshay	11	6	7	4	11	6	8	4	9	5	6	3
356	IE17/2/T26	Honkalas Aditya	15	8	9	5	15	8	15	8	16	8	12	6
357	IE17/2/T34	Kalyankar Ameya	11	6	6	3	11	6	16	8	15	8	10	5
358	IE17/2/T15	Dhattore Aishwarya	15	8	9	5	10	5	15	8	14	7	9	5
359	IE17/2/T51	Nagtilak Saraswati	17	9	9	5	12	6	11	6	19	10	8	4
360	IE17/2/T36	Karande Swarali	8	4	11	6	11	6	14	7	12	6	8	4
361	IE17/2/T20	Ghongade Snehalata	16	8	15	8	14	7	14	7	8	4	12	6
362	IE17/2/T57	Potdar Chinmayi	16	8	15	8	8	4	13	7	10	5	11	6
363	IE17/2/T16	Dhole Harshada	19	10	14	7	11	6	15	8	14	7	13	7



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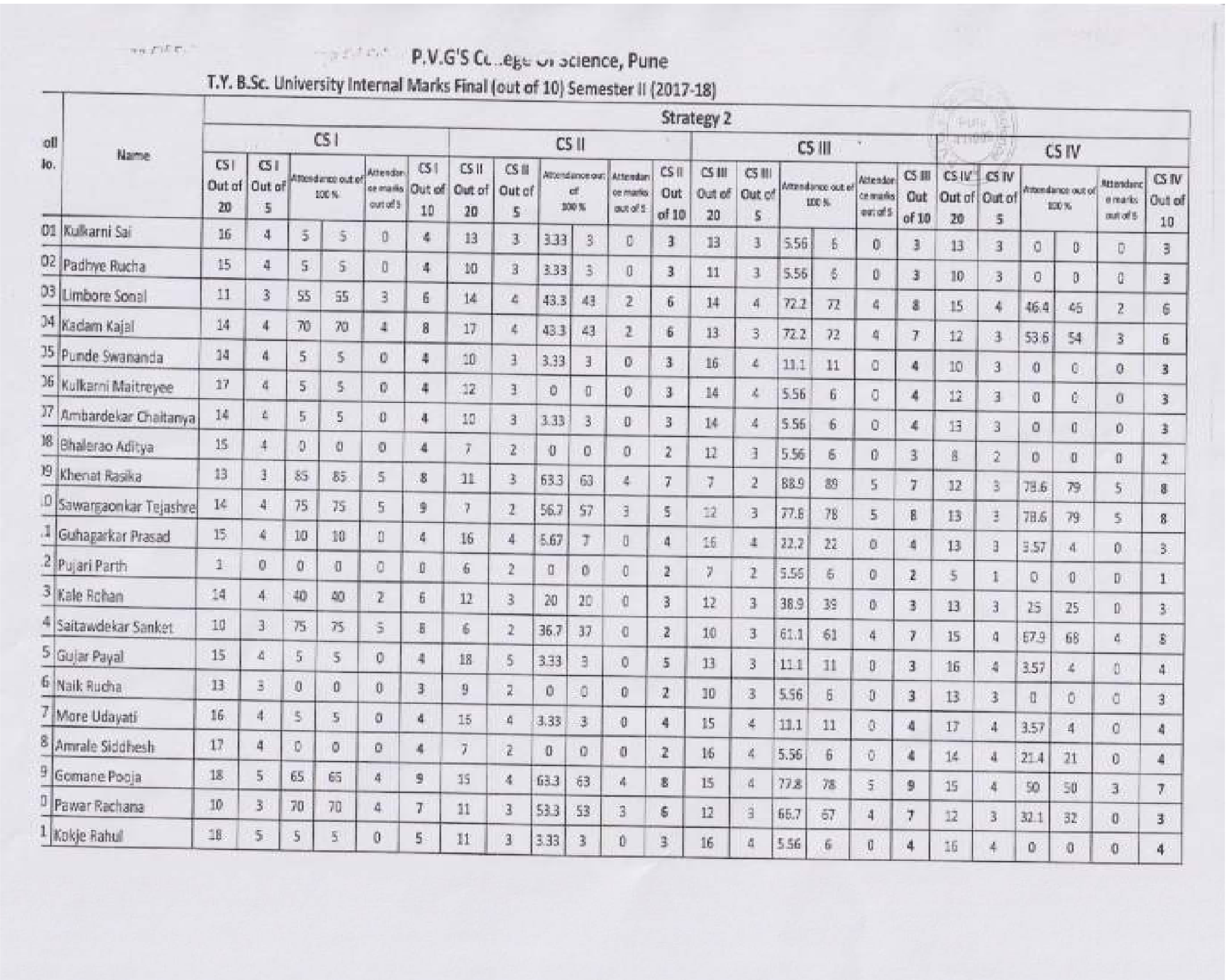
T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

Roll No.	Int. Exam Seat No.	Name	Strategy 1											
			CS I Out of 20	CS I Out of 10	CS II Out of 20	CS II Out of 10	CS III Out of 20	CS III Out of 10	CS IV Out of 20	CS IV Out of 10	CS V Out of 20	CS V Out of 10	CS VI Out of 20	CS VI Out of 10
364	IE17/2/T56	Pawar Shivam	13	7	11	6	15	8	12	6	8	4	10	5
365	IE17/2/T19	Ghatge Vaikrant	10	5	9	5	13	7	7	4	9	5	6	3
366	IE17/2/T42	Kudale Rutuja	7	4	8	4	5	3	7	4	5	3	3	2
367	IE17/2/T17	Dhondage Shubham	Ab	#####	Ab	#####	Ab	#####	Ab	#####	AB	#####	Ab	#####
368	IE17/2/T27	Jagtap Manish	14	7	9	5	10	5	8	4	5	3	8	4
369	IE17/2/T66	Tumne Rutwin	9	5	1	1	9	5	9	5	7	4	10	5
370	IE17/2/T67	Tambe Sameer	10	5	2	1	11	6	12	6	10	5	11	6
371	IE17/2/T02	Deophode Niranjan	2	1	8	4	7	4	10	5	11	6	4	2
372	IE17/2/T08	Bhandwalkar Ajay	15	8	7	4	11	6	10	5	10	5	6	3
373	IE17/2/T41	Kshirsagar Shubham	16	8	7	4	13	7	12	6	8	4	7	4
374	IE17/2/T62	Warthe Saurabh	3	2	6	3	9	5	10	5	8	4	4	2
375	IE17/2/T68	Surve Suraj	5	3	5	3	9	5	10	5	5	3	4	2
376	IE17/2/T63	Waghmare Swapnil	5	3	2	1	Ab	#####	Ab	#####	Ab	#####	Ab	#####
377	IE17/2/T29	Jain Satyajeet	2	1	6	3	Ab	#####	Ab	#####	Ab	#####	Ab	#####

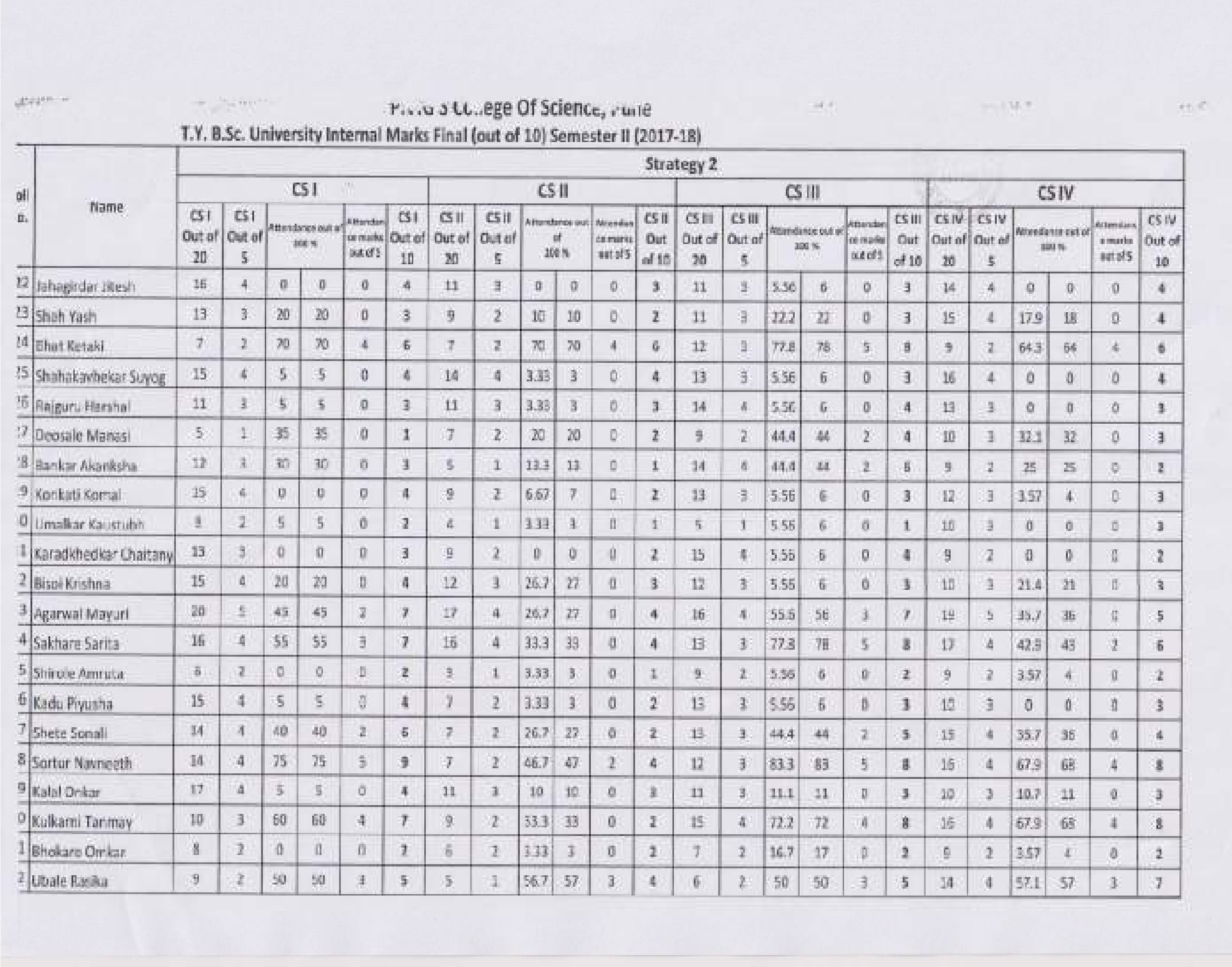
T. Y. Internal Examination marks Sem-II evaluation by strategy 2:



P.V.G'S College of Science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

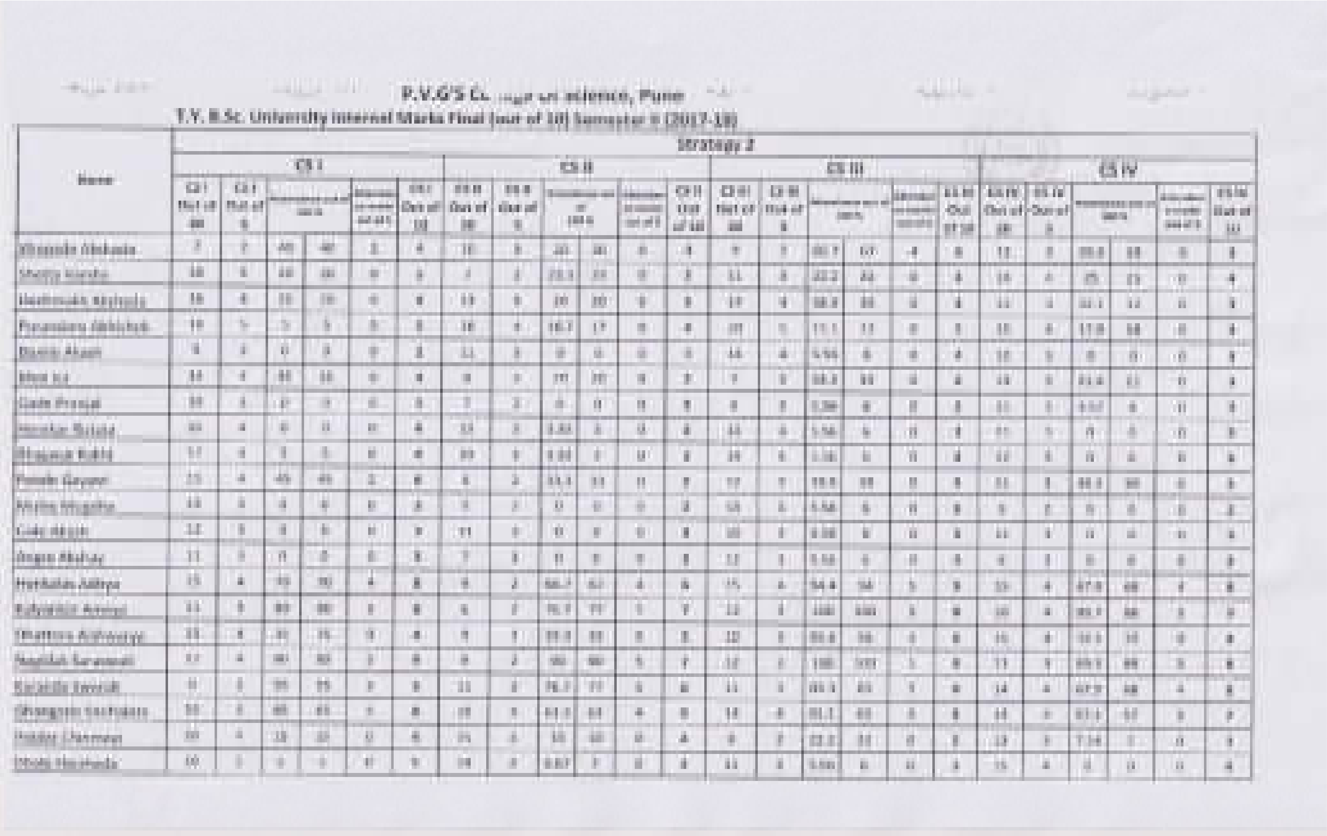
oll lo.	Name	Strategy 2																							
		CS I						CS II						CS III						CS IV					
		CS I Out of 20	CS I Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS I Out of 10	CS II Out of 20	CS II Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS II Out of 10	CS III Out of 20	CS III Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS III Out of 10	CS IV Out of 20	CS IV Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS IV Out of 10
01	Kulkarni Sai	16	4	5	5	0	4	13	3	3.33	3	0	3	13	3	5.56	6	0	3	13	3	0	0	0	3
02	Padhye Rucha	15	4	5	5	0	4	10	3	3.33	3	0	3	11	3	5.56	6	0	3	10	3	0	0	0	3
03	Limbore Sonal	11	3	55	55	3	6	14	4	43.3	43	2	6	14	4	72.2	72	4	8	15	4	46.4	45	2	6
04	Kadam Kajal	14	4	70	70	4	8	17	4	43.3	43	2	6	13	3	72.2	72	4	7	12	3	53.6	54	3	6
05	Punde Swananda	14	4	5	5	0	4	10	3	3.33	3	0	3	16	4	11.1	11	0	4	10	3	0	0	0	3
06	Kulkarni Maitreyee	17	4	5	5	0	4	12	3	0	0	0	3	14	4	5.56	6	0	4	12	3	0	0	0	3
07	Ambardekar Chaitanya	14	4	5	5	0	4	10	3	3.33	3	0	3	14	4	5.56	6	0	4	13	3	0	0	0	3
08	Bhalerao Aditya	15	4	0	0	0	4	7	2	0	0	0	2	12	3	5.56	6	0	3	8	2	0	0	0	2
09	Khenat Rasika	13	3	85	85	5	8	11	3	63.3	63	4	7	7	2	88.9	89	5	7	12	3	78.6	79	5	8
10	Sawargaonkar Tejashre	14	4	75	75	5	9	7	2	56.7	57	3	5	12	3	77.8	78	5	8	13	3	78.6	79	5	8
11	Guhagarkar Prasad	15	4	10	10	0	4	16	4	5.67	7	0	4	16	4	22.2	22	0	4	13	3	3.57	4	0	3
12	Pujari Parth	1	0	0	0	0	0	6	2	0	0	0	2	7	2	5.56	6	0	2	5	1	0	0	0	1
3	Kale Rohan	14	4	40	40	2	6	12	3	20	20	0	3	12	3	38.9	39	0	3	13	3	25	25	0	3
4	Saitawdekar Sanket	10	3	75	75	5	8	6	2	36.7	37	0	2	10	3	61.1	61	4	7	15	4	67.9	68	4	8
5	Gujar Payal	15	4	5	5	0	4	18	5	3.33	3	0	5	13	3	11.1	11	0	3	16	4	3.57	4	0	4
6	Naik Rucha	13	3	0	0	0	3	9	2	0	0	0	2	10	3	5.56	6	0	3	13	3	0	0	0	3
7	More Udayati	16	4	5	5	0	4	15	4	3.33	3	0	4	15	4	11.1	11	0	4	17	4	3.57	4	0	4
8	Amrale Siddhesh	17	4	0	0	0	4	7	2	0	0	0	2	16	4	5.56	6	0	4	14	4	21.4	21	0	4
9	Gomane Pooja	18	5	65	65	4	9	15	4	63.3	63	4	8	15	4	77.8	78	5	9	15	4	50	50	3	7
0	Pawar Rachana	10	3	70	70	4	7	11	3	53.3	53	3	6	12	3	66.7	67	4	7	12	3	32.1	32	0	3
1	Kokje Rahul	18	5	5	5	0	5	11	3	3.33	3	0	3	16	4	5.56	6	0	4	16	4	0	0	0	4



PVG's College Of Science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

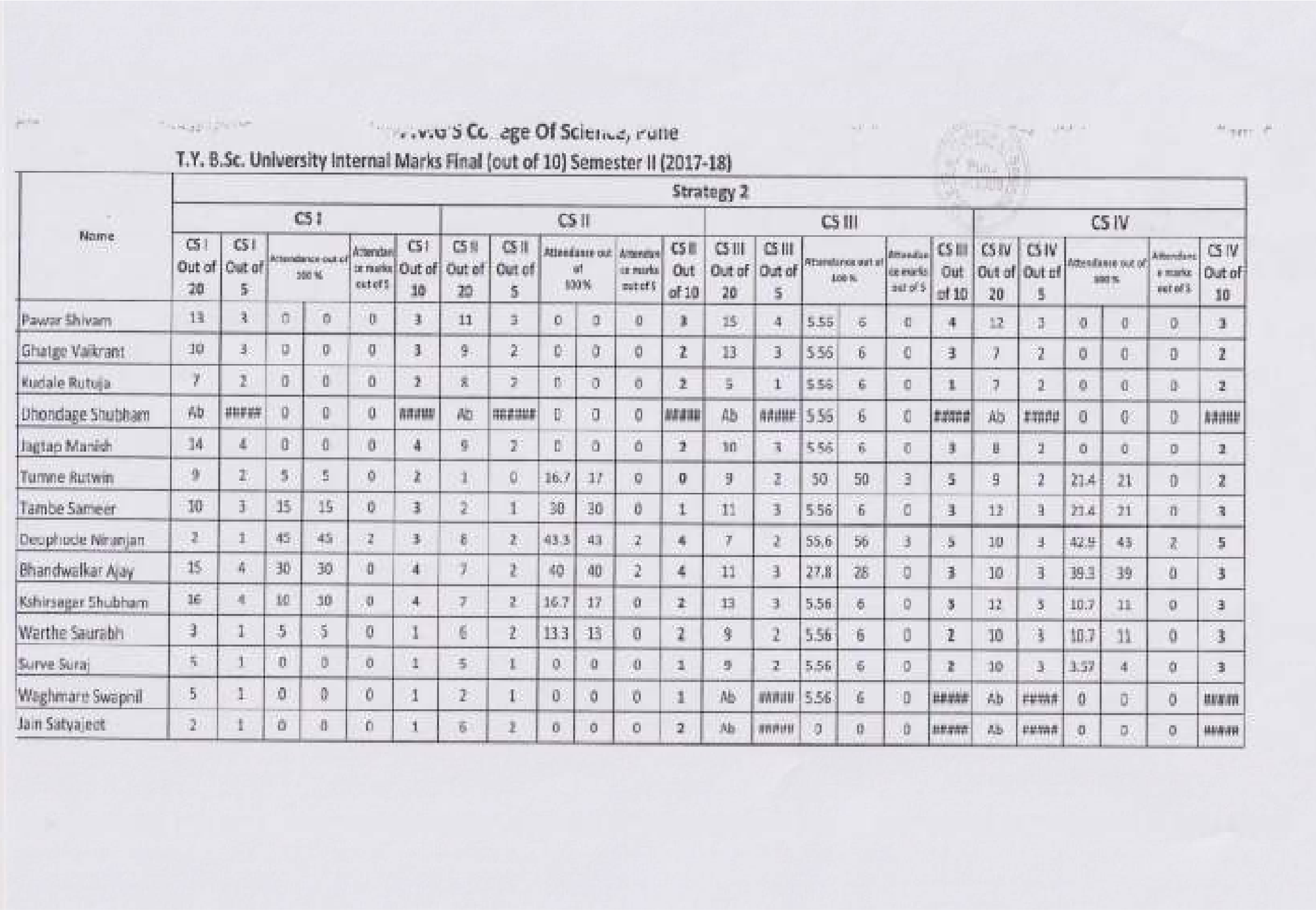
oll o.	Name	Strategy 2																							
		CS I						CS II						CS III						CS IV					
		CS I Out of 20	CS I Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS I Out of 10	CS II Out of 20	CS II Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS II Out of 10	CS III Out of 20	CS III Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS III Out of 10	CS IV Out of 20	CS IV Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS IV Out of 10
22	Jahagirdar Jitesh	16	4	0	0	0	4	11	3	0	0	0	3	11	3	5.56	6	0	3	14	4	0	0	0	4
23	Shah Yash	13	3	20	20	0	3	9	2	10	10	0	2	11	3	22.2	22	0	3	15	4	17.9	18	0	4
24	Bhat Ketaki	7	2	70	70	4	6	7	2	70	70	4	6	12	3	77.8	78	5	8	9	2	64.3	64	4	6
25	Shahakavhekar Suyog	15	4	5	5	0	4	14	4	3.33	3	0	4	13	3	5.56	6	0	3	16	4	0	0	0	4
6	Rajguru Harshal	11	3	5	5	0	3	11	3	3.33	3	0	3	14	4	5.56	6	0	4	13	3	0	0	0	3
7	Deosale Manasi	5	1	35	35	0	1	7	2	20	20	0	2	9	2	44.4	44	2	4	10	3	32.1	32	0	3
8	Bankar Akanksha	12	3	30	30	0	3	5	1	13.3	13	0	1	14	4	44.4	44	2	6	9	2	25	25	0	2
9	Konkati Komal	15	4	0	0	0	4	9	2	6.67	7	0	2	13	3	5.56	6	0	3	12	3	3.57	4	0	3
0	Umalkar Kaustubh	8	2	5	5	0	2	4	1	3.33	3	0	1	5	1	5.56	6	0	1	10	3	0	0	0	3
1	Karadkhedkar Chaitany	13	3	0	0	0	3	9	2	0	0	0	2	15	4	5.56	6	0	4	9	2	0	0	0	2
2	Bisoi Krishna	15	4	20	20	0	4	12	3	26.7	27	0	3	12	3	5.55	6	0	3	10	3	21.4	21	0	3
3	Agarwal Mayuri	20	5	45	45	2	7	17	4	26.7	27	0	4	16	4	55.6	56	3	7	19	5	35.7	36	0	5
4	Sakhare Sarita	16	4	55	55	3	7	16	4	33.3	33	0	4	13	3	77.8	78	5	8	17	4	42.9	43	2	6
5	Shirole Amruta	8	2	0	0	0	2	3	1	3.33	3	0	1	9	2	5.56	6	0	2	9	2	3.57	4	0	2
6	Kadu Piyusha	15	4	5	5	0	4	7	2	3.33	3	0	2	13	3	5.56	6	0	3	10	3	0	0	0	3
7	Shete Sonali	14	4	40	40	2	6	7	2	26.7	27	0	2	13	3	44.4	44	2	5	15	4	35.7	36	0	4
8	Sortur Navneeth	14	4	75	75	5	9	7	2	46.7	47	2	4	12	3	83.3	83	5	8	16	4	67.9	68	4	8
9	Kalal Onkar	17	4	5	5	0	4	11	3	10	10	0	3	13	3	11.1	11	0	3	10	3	10.7	11	0	3
0	Kulkarni Tanmay	10	3	60	60	4	7	9	2	33.3	33	0	2	15	4	72.2	72	4	8	16	4	67.9	68	4	8
1	Bhokare Omkar	8	2	0	0	0	2	6	2	3.33	3	0	2	7	2	16.7	17	0	2	9	2	3.57	4	0	2
2	Ubale Rasika	9	2	50	50	3	5	5	1	56.7	57	3	4	6	2	50	50	3	5	14	4	57.1	57	3	7



P.V.G'S C[illegible] science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

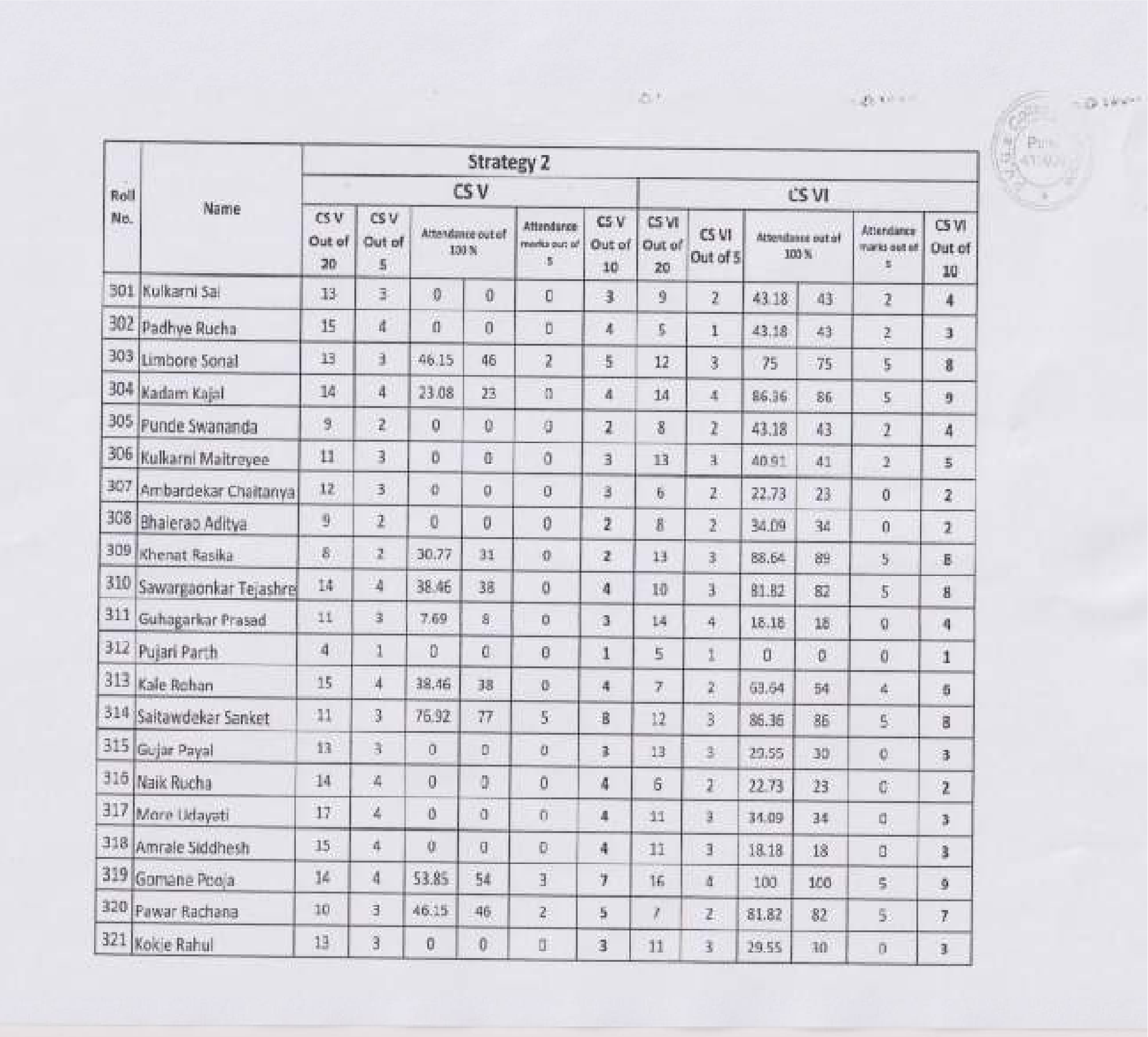
Strategy 2



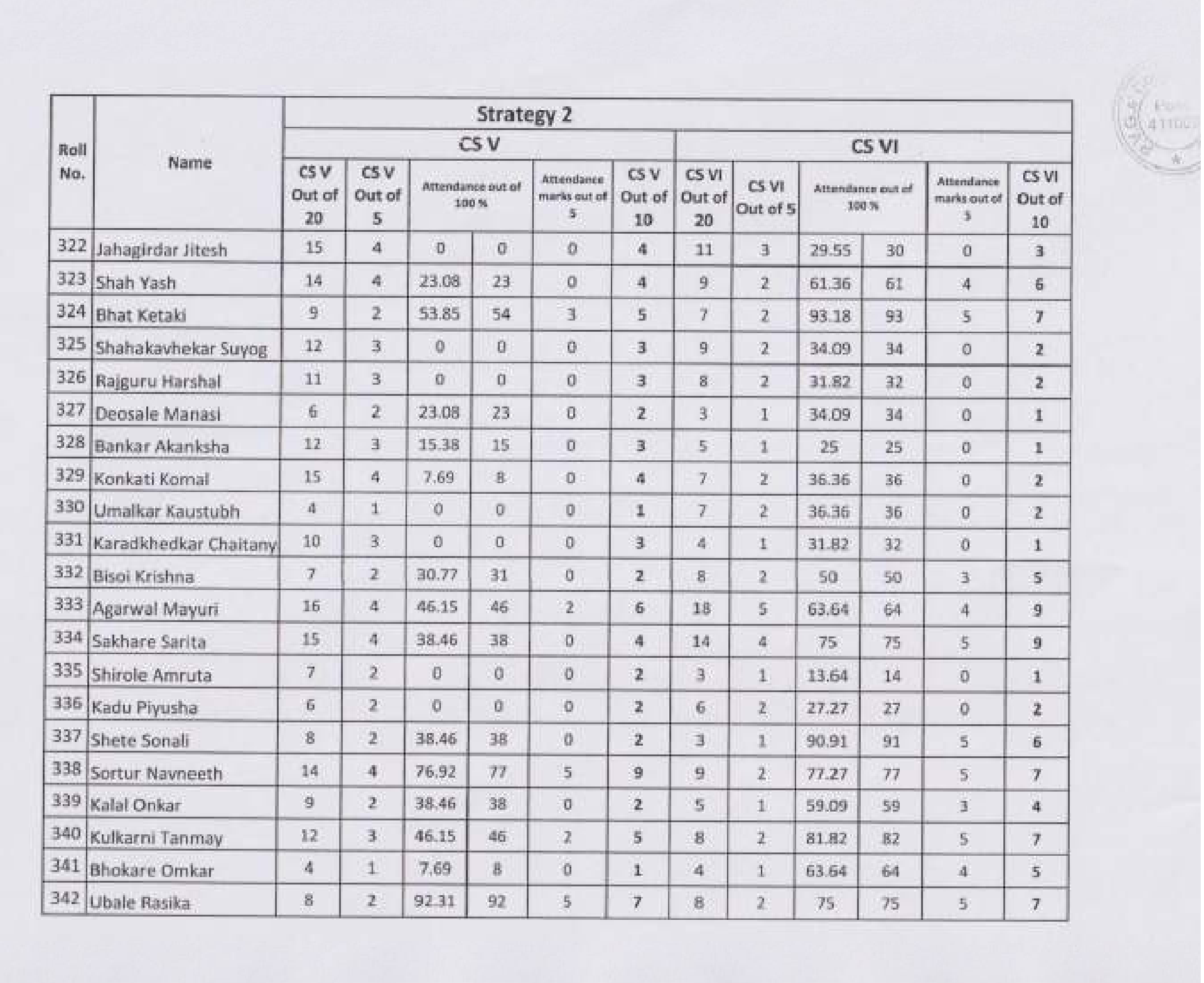
P.V.G's College Of Science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

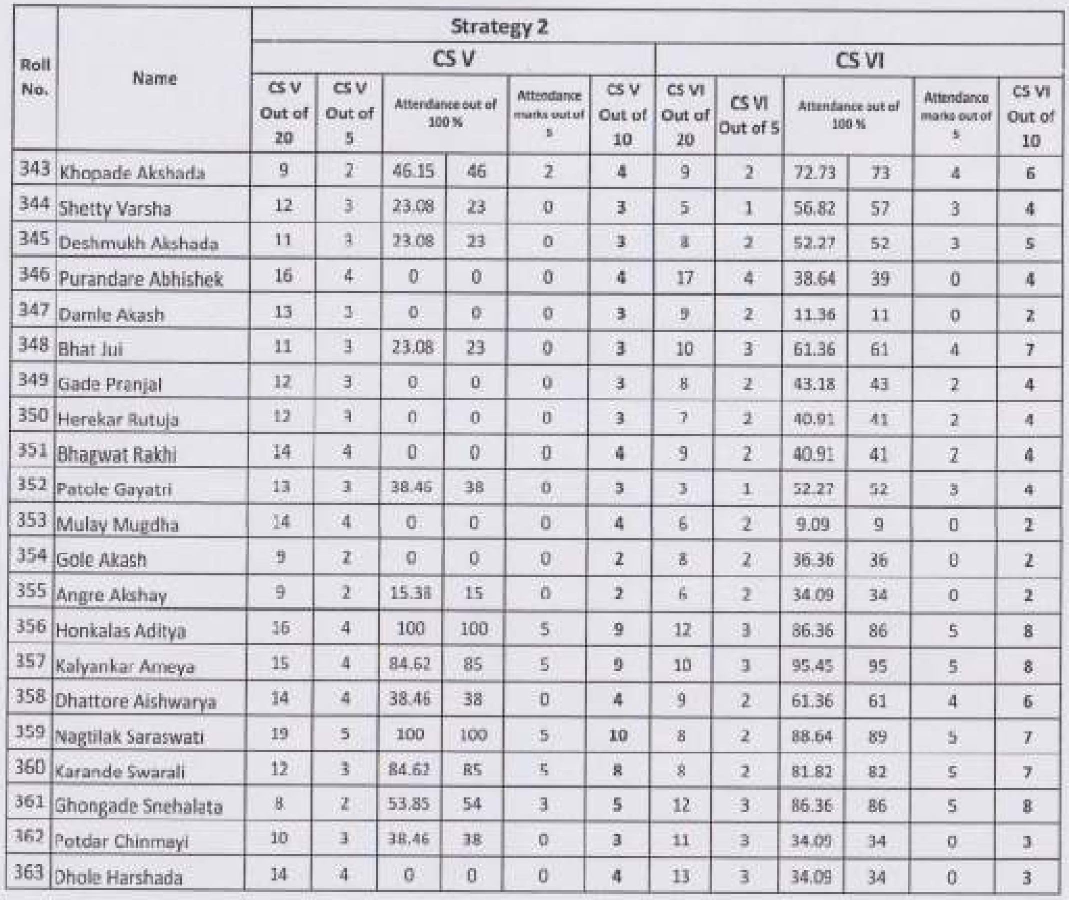
Name	Strategy 2																							
	CS I						CS II						CS III						CS IV					
	CS I Out of 20	CS I Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS I Out of 10	CS II Out of 20	CS II Out of 5	Attendance out of 100%		Attendance marks out of 5	CS II Out of 10	CS III Out of 20	CS III Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS III Out of 10	CS IV Out of 20	CS IV Out of 5	Attendance out of 100%		Attendance marks out of 5	CS IV Out of 10
Pawar Shivam	13	3	0	0	0	3	11	3	0	0	0	3	15	4	5.56	6	0	4	12	3	0	0	0	3
Ghatge Vaikrant	10	3	0	0	0	3	9	2	0	0	0	2	13	3	5.56	6	0	3	7	2	0	0	0	2
Kudale Rutuja	7	2	0	0	0	2	8	2	0	0	0	2	5	1	5.56	6	0	1	7	2	0	0	0	2
Dhondage Shubham	Ab	#####	0	0	0	#####	Ab	######	0	0	0	#####	Ab	#####	5.56	6	0	#####	Ab	#####	0	0	0	#####
Jagtap Manish	14	4	0	0	0	4	9	2	0	0	0	2	10	3	5.56	6	0	3	8	2	0	0	0	2
Tumne Rutwin	9	2	5	5	0	2	1	0	16.7	17	0	0	9	2	50	50	3	5	9	2	21.4	21	0	2
Tambe Sameer	10	3	15	15	0	3	2	1	30	30	0	1	11	3	5.56	6	0	3	12	3	21.4	21	0	3
Deophode Niranjan	2	1	45	45	2	3	6	2	43.3	43	2	4	7	2	55.6	56	3	5	10	3	42.9	43	2	5
Bhandwalkar Ajay	15	4	30	30	0	4	7	2	40	40	2	4	11	3	27.8	28	0	3	10	3	39.3	39	0	3
Kshirsager Shubham	16	4	10	10	0	4	7	2	16.7	17	0	2	13	3	5.56	6	0	3	12	3	10.7	11	0	3
Warthe Saurabh	3	1	5	5	0	1	6	2	13.3	13	0	2	9	2	5.56	6	0	2	10	3	10.7	11	0	3
Surve Suraj	5	1	0	0	0	1	5	1	0	0	0	1	9	2	5.56	6	0	2	10	3	3.57	4	0	3
Waghmare Swapnil	5	1	0	0	0	1	2	1	0	0	0	1	Ab	#####	5.56	6	0	#####	Ab	#####	0	0	0	#####
Jain Satyajeet	2	1	0	0	0	1	6	2	0	0	0	2	Ab	#####	0	0	0	#####	Ab	#####	0	0	0	#####



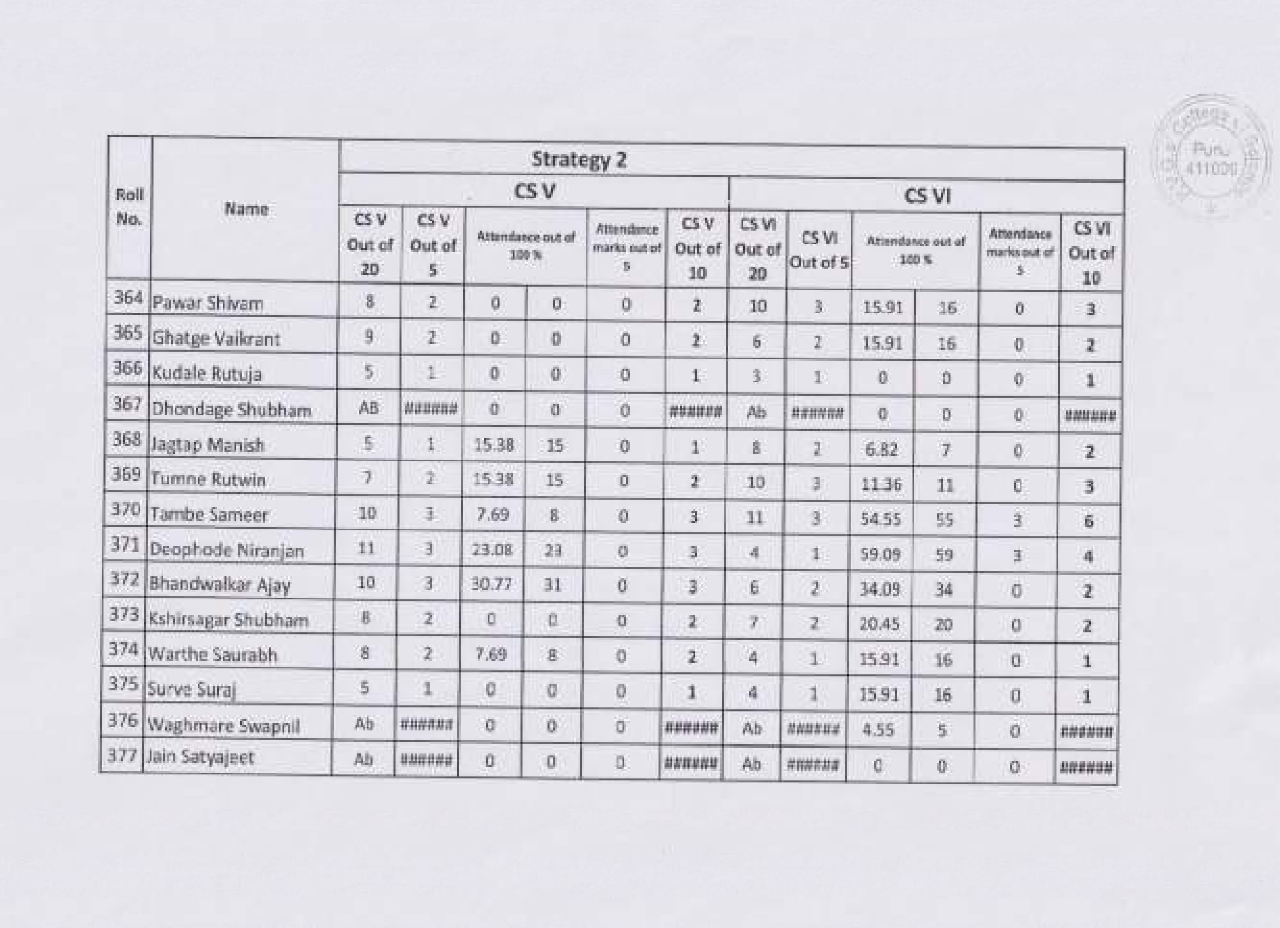
Roll No.	Name	Strategy 2											
		CS V						CS VI					
		CS V Out of 20	CS V Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS V Out of 10	CS VI Out of 20	CS VI Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS VI Out of 10
301	Kulkarni Sai	13	3	0	0	0	3	9	2	43.18	43	2	4
302	Padhye Rucha	15	4	0	0	0	4	5	1	43.18	43	2	3
303	Limbore Sonal	13	3	46.15	46	2	5	12	3	75	75	5	8
304	Kadam Kajal	14	4	23.08	23	0	4	14	4	86.36	86	5	9
305	Punde Swananda	9	2	0	0	0	2	8	2	43.18	43	2	4
306	Kulkarni Maitreyee	11	3	0	0	0	3	13	3	40.91	41	2	5
307	Ambardekar Chaitanya	12	3	0	0	0	3	6	2	22.73	23	0	2
308	Bhalerao Aditya	9	2	0	0	0	2	8	2	34.09	34	0	2
309	Khenat Rasika	8	2	30.77	31	0	2	13	3	88.64	89	5	8
310	Sawargaonkar Tejashre	14	4	38.46	38	0	4	10	3	81.82	82	5	8
311	Guhagarkar Prasad	11	3	7.69	8	0	3	14	4	18.18	18	0	4
312	Pujari Parth	4	1	0	0	0	1	5	1	0	0	0	1
313	Kale Rohan	15	4	38.46	38	0	4	7	2	63.64	54	4	6
314	Saitawdekar Sanket	11	3	76.92	77	5	8	12	3	86.36	86	5	8
315	Gujar Payal	13	3	0	0	0	3	13	3	29.55	30	0	3
316	Naik Rucha	14	4	0	0	0	4	6	2	22.73	23	0	2
317	More Udayati	17	4	0	0	0	4	11	3	34.09	34	0	3
318	Amrale Siddhesh	15	4	0	0	0	4	11	3	18.18	18	0	3
319	Gomane Pooja	14	4	53.85	54	3	7	16	4	100	100	5	9
320	Pawar Rachana	10	3	46.15	46	2	5	7	2	81.82	82	5	7
321	Kokje Rahul	13	3	0	0	0	3	11	3	29.55	30	0	3



Roll No.	Name	Strategy 2											
		CS V						CS VI					
		CS V Out of 20	CS V Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS V Out of 10	CS VI Out of 20	CS VI Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS VI Out of 10
322	Jahagirdar Jitesh	15	4	0	0	0	4	11	3	29.55	30	0	3
323	Shah Yash	14	4	23.08	23	0	4	9	2	61.36	61	4	6
324	Bhat Ketaki	9	2	53.85	54	3	5	7	2	93.18	93	5	7
325	Shahakavhekar Suyog	12	3	0	0	0	3	9	2	34.09	34	0	2
326	Rajguru Harshal	11	3	0	0	0	3	8	2	31.82	32	0	2
327	Deosale Manasi	6	2	23.08	23	0	2	3	1	34.09	34	0	1
328	Bankar Akanksha	12	3	15.38	15	0	3	5	1	25	25	0	1
329	Konkati Komal	15	4	7.69	8	0	4	7	2	36.36	36	0	2
330	Umalkar Kaustubh	4	1	0	0	0	1	7	2	36.36	36	0	2
331	Karadkhedkar Chaitany	10	3	0	0	0	3	4	1	31.82	32	0	1
332	Bisoi Krishna	7	2	30.77	31	0	2	8	2	50	50	3	5
333	Agarwal Mayuri	16	4	46.15	46	2	6	18	5	63.64	64	4	9
334	Sakhare Sarita	15	4	38.46	38	0	4	14	4	75	75	5	9
335	Shirole Amruta	7	2	0	0	0	2	3	1	13.64	14	0	1
336	Kadu Piyusha	6	2	0	0	0	2	6	2	27.27	27	0	2
337	Shete Sonali	8	2	38.46	38	0	2	3	1	90.91	91	5	6
338	Sortur Navneeth	14	4	76.92	77	5	9	9	2	77.27	77	5	7
339	Kalal Onkar	9	2	38.46	38	0	2	5	1	59.09	59	3	4
340	Kulkarni Tanmay	12	3	46.15	46	2	5	8	2	81.82	82	5	7
341	Bhokare Omkar	4	1	7.69	8	0	1	4	1	63.64	64	4	5
342	Ubale Rasika	8	2	92.31	92	5	7	8	2	75	75	5	7

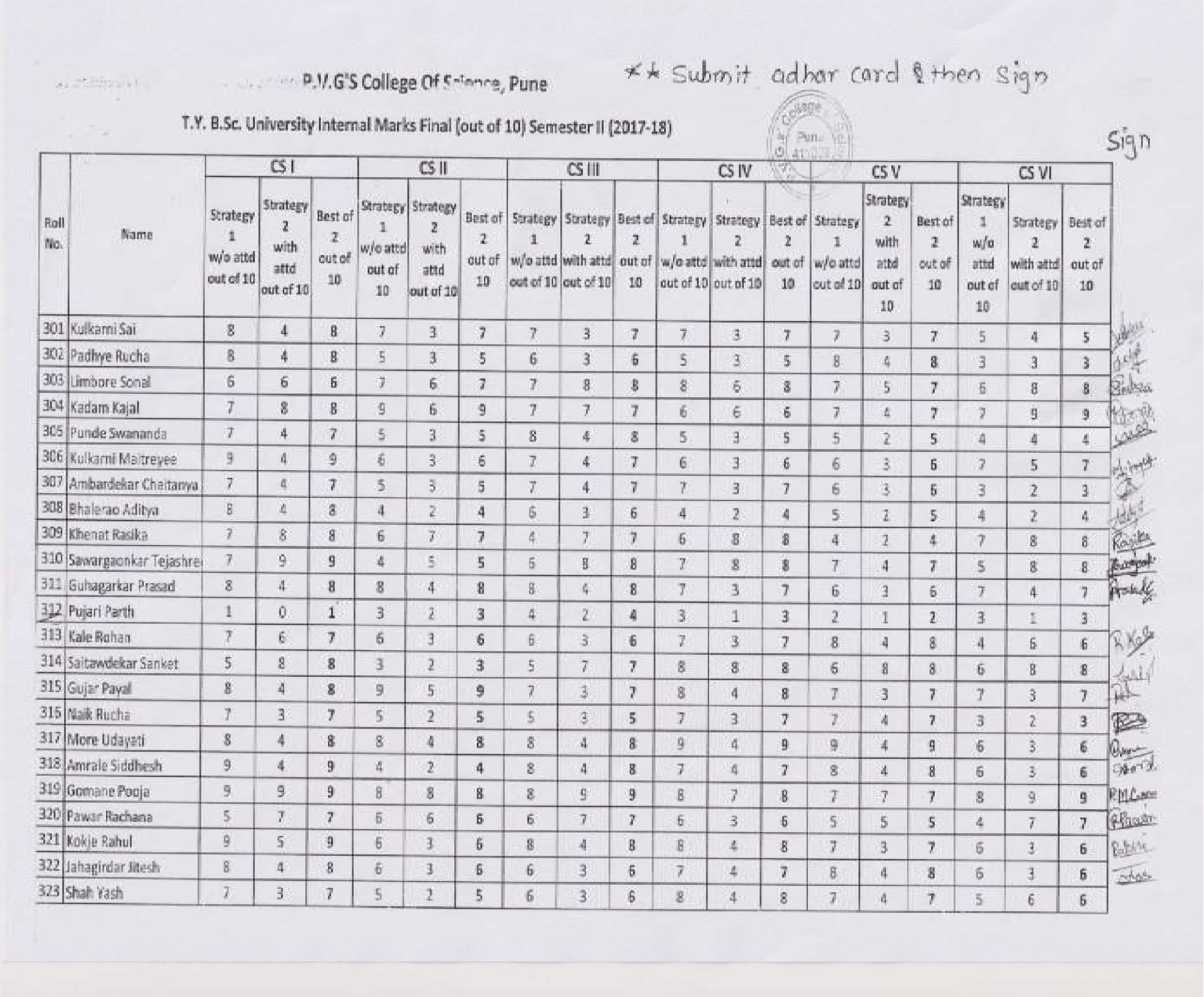


Roll No.	Name	Strategy 2												
		CS V						CS VI						
		CS V Out of 20	CS V Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS V Out of 10	CS VI Out of 20	CS VI Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS VI Out of 10
343	Khopade Akshada	9	2	46.15	46	2	4	9	2	72.73	73	4	6
344	Shetty Varsha	12	3	23.08	23	0	3	5	1	56.82	57	3	4
345	Deshmukh Akshada	11	3	23.08	23	0	3	8	2	52.27	52	3	5
346	Purandare Abhishek	16	4	0	0	0	4	17	4	38.64	39	0	4
347	Damle Akash	13	3	0	0	0	3	9	2	11.36	11	0	2
348	Bhat Jui	11	3	23.08	23	0	3	10	3	61.36	61	4	7
349	Gade Pranjal	12	3	0	0	0	3	8	2	43.18	43	2	4
350	Herekar Rutuja	12	3	0	0	0	3	7	2	40.91	41	2	4
351	Bhagwat Rakhi	14	4	0	0	0	4	9	2	40.91	41	2	4
352	Patole Gayatri	13	3	38.46	38	0	3	3	1	52.27	52	3	4
353	Mulay Mugdha	14	4	0	0	0	4	6	2	9.09	9	0	2
354	Gole Akash	9	2	0	0	0	2	8	2	36.36	36	0	2
355	Angre Akshay	9	2	15.38	15	0	2	6	2	34.09	34	0	2
356	Honkalas Aditya	16	4	100	100	5	9	12	3	86.36	86	5	8
357	Kalyankar Ameya	15	4	84.62	85	5	9	10	3	95.45	95	5	8
358	Dhattore Aishwarya	14	4	38.46	38	0	4	9	2	61.36	61	4	6
359	Nagtilak Saraswati	19	5	100	100	5	10	8	2	88.64	89	5	7
360	Karande Swarali	12	3	84.62	85	5	8	8	2	81.82	82	5	7
361	Ghongade Snehalata	8	2	53.85	54	3	5	12	3	86.36	86	5	8
362	Potdar Chinmayi	10	3	38.46	38	0	3	11	3	34.09	34	0	3
363	Dhole Harshada	14	4	0	0	0	4	13	3	34.09	34	0	3



Roll No.	Name	Strategy 2													
		CS V						CS VI							
		CS V Out of 20	CS V Out of 5	Attendance out of 100 %		Attendence marks out of 5	CS V Out of 10	CS VI Out of 20	CS VI Out of 5	Attendance out of 100 %		Attendance marks out of 5	CS VI Out of 10
364	Pawar Shivam	8	2	0	0	0	2	10	3	15.91	16	0	3
365	Ghatge Vaikrant	9	2	0	0	0	2	6	2	15.91	16	0	2
366	Kudale Rutuja	5	1	0	0	0	1	3	1	0	0	0	1
367	Dhondage Shubham	AB	######	0	0	0	######	Ab	######	0	0	0	######
368	Jagtap Manish	5	1	15.38	15	0	1	8	2	6.82	7	0	2
369	Tumne Rutwin	7	2	15.38	15	0	2	10	3	11.36	11	0	3
370	Tambe Sameer	10	3	7.69	8	0	3	11	3	54.55	55	3	6
371	Deophode Niranjan	11	3	23.08	23	0	3	4	1	59.09	59	3	4
372	Bhandwalkar Ajay	10	3	30.77	31	0	3	6	2	34.09	34	0	2
373	Kshirsagar Shubham	8	2	0	0	0	2	7	2	20.45	20	0	2
374	Warthe Saurabh	8	2	7.69	8	0	2	4	1	15.91	16	0	1
375	Surve Suraj	5	1	0	0	0	1	4	1	15.91	16	0	1
376	Waghmare Swapnil	Ab	######	0	0	0	######	Ab	######	4.55	5	0	######
377	Jain Satyajeet	Ab	######	0	0	0	######	Ab	######	0	0	0	######

Comparisons of best of two strategies and final marks displayed to students and signs were taken on it:

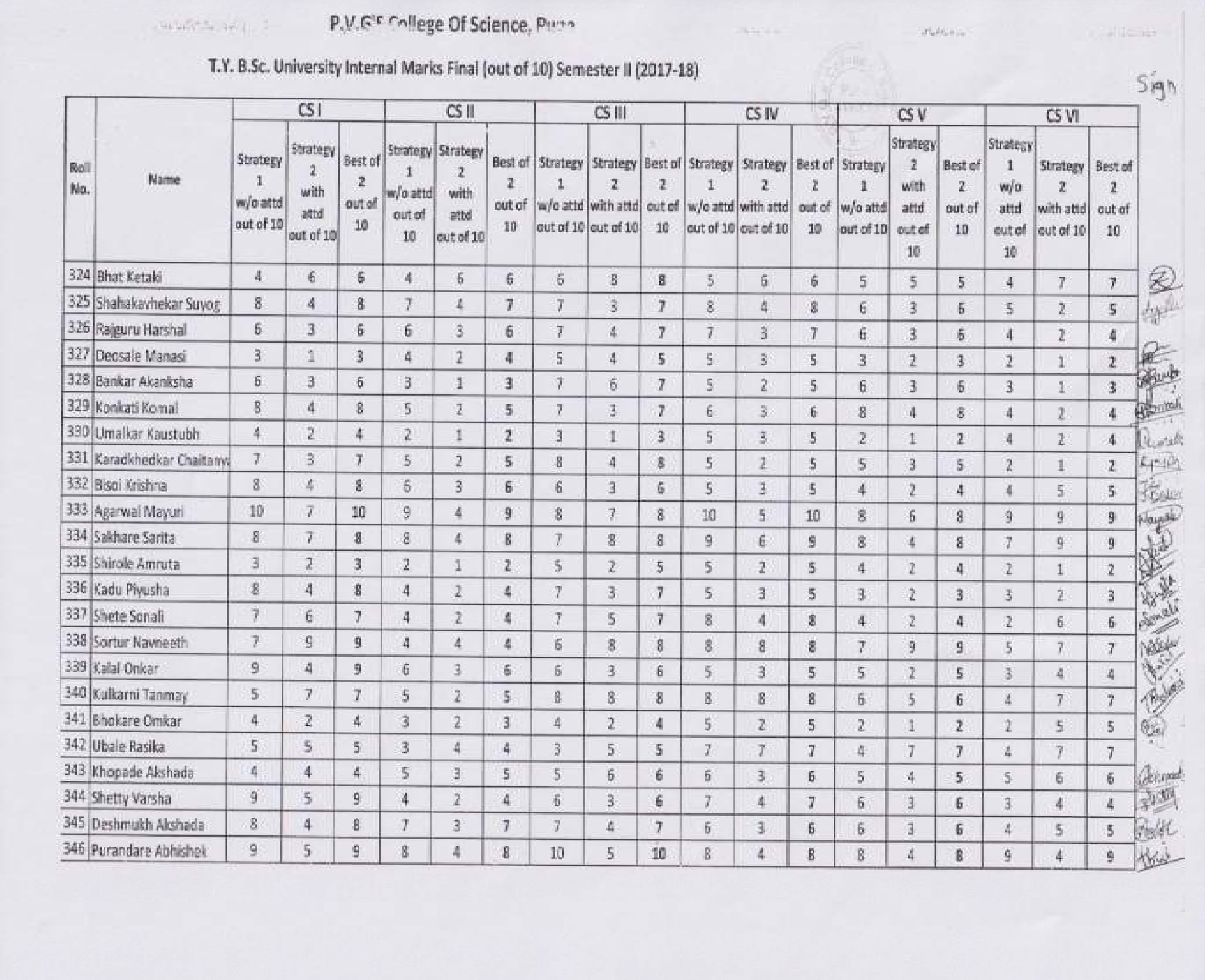


P.V.G'S College Of Science, Pune

** Submit adhar card & then Sign

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

Roll No.	Name	CS I			CS II			CS III			CS IV			CS V			CS VI			Sign
		Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	
301	Kulkarni Sai	8	4	8	7	3	7	7	3	7	7	3	7	7	3	7	5	4	5	
302	Padhye Rucha	8	4	8	5	3	5	6	3	6	5	3	5	8	4	8	3	3	3	
303	Limbore Sonal	6	6	6	7	6	7	7	8	8	8	6	8	7	5	7	6	8	8	
304	Kadam Kajal	7	8	8	9	6	9	7	7	7	6	6	6	7	4	7	7	9	9	
305	Punde Swananda	7	4	7	5	3	5	8	4	8	5	3	5	5	2	5	4	4	4	
306	Kulkarni Maitreyee	9	4	9	6	3	6	7	4	7	6	3	6	6	3	6	7	5	7	
307	Ambardekar Chaitanya	7	4	7	5	3	5	7	4	7	7	3	7	6	3	6	3	2	3	
308	Bhalerao Aditya	8	4	8	4	2	4	6	3	6	4	2	4	5	2	5	4	2	4	
309	Khenat Rasika	7	8	8	6	7	7	4	7	7	6	8	8	4	2	4	7	8	8	Rasika
310	Sawargaonkar Tejashre	7	9	9	4	5	5	6	8	8	7	8	8	7	4	7	5	8	8	
311	Guhagarkar Prasad	8	4	8	8	4	8	8	4	8	7	3	7	6	3	6	7	4	7	
312	Pujari Parth	1	0	1	3	2	3	4	2	4	3	1	3	2	1	2	3	1	3	
313	Kale Rohan	7	6	7	6	3	6	6	3	6	7	3	7	8	4	8	4	6	6	R.Kale
314	Saitawdekar Sanket	5	8	8	3	2	3	5	7	7	8	8	8	6	8	8	6	8	8	
315	Gujar Payal	8	4	8	9	5	9	7	3	7	8	4	8	7	3	7	7	3	7	
315	Naik Rucha	7	3	7	5	2	5	5	3	5	7	3	7	7	4	7	3	2	3	
317	More Udayati	8	4	8	8	4	8	8	4	8	9	4	9	9	4	9	6	3	6	
318	Amrale Siddhesh	9	4	9	4	2	4	8	4	8	7	4	7	8	4	8	6	3	6	
319	Gomane Pooja	9	9	9	8	8	8	8	9	9	8	7	8	7	7	7	8	9	9	
320	Pawar Rachana	5	7	7	6	6	6	6	7	7	6	3	6	5	5	5	4	7	7	
321	Kokje Rahul	9	5	9	6	3	6	8	4	8	8	4	8	7	3	7	6	3	6	
322	Jahagirdar Jitesh	8	4	8	6	3	6	6	3	6	7	4	7	8	4	8	6	3	6	
323	Shah Yash	7	3	7	5	2	5	6	3	6	8	4	8	7	4	7	5	6	6	

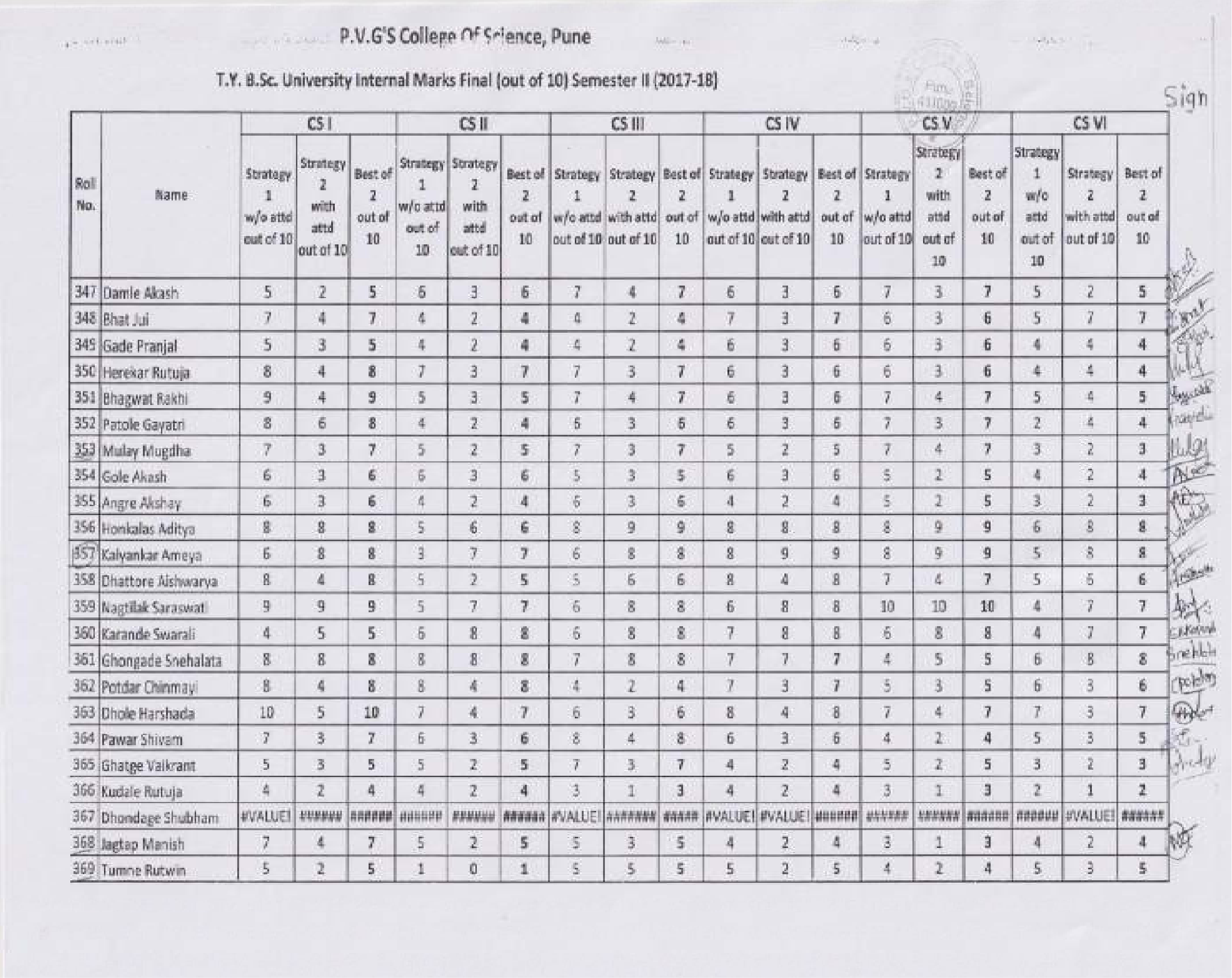


P.V.G'S College Of Science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

Sign

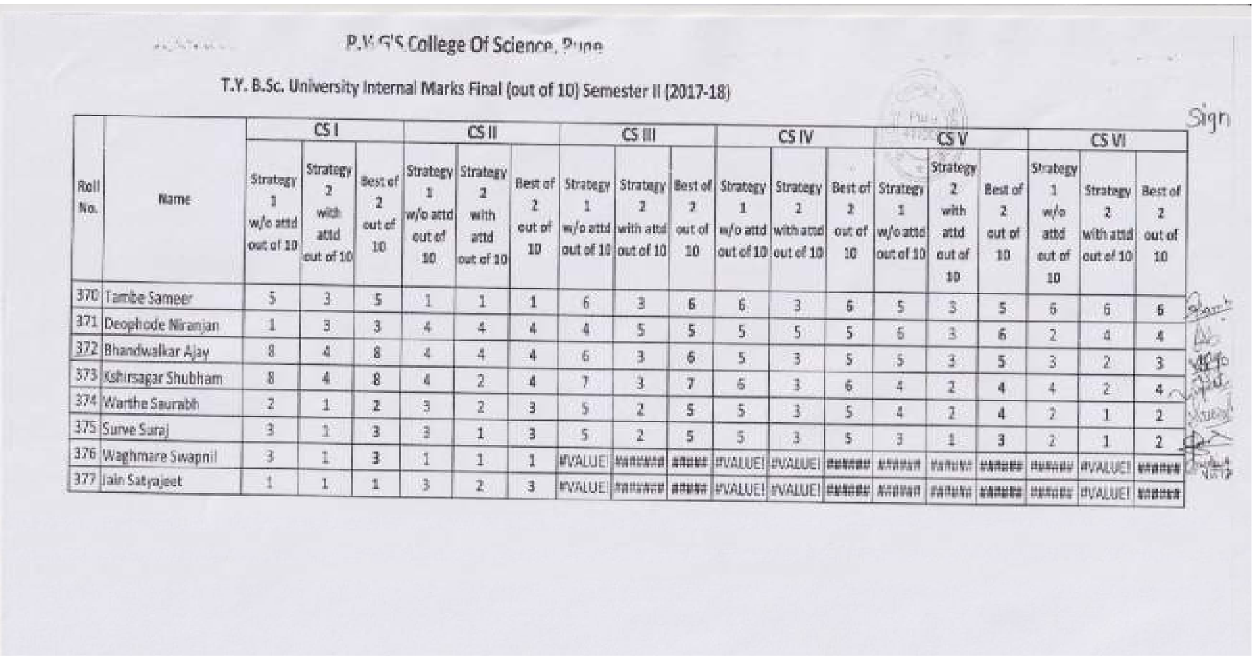
Roll No.	Name	CS I			CS II			CS III			CS IV			CS V			CS VI		
		Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10
324	Bhat Ketaki	4	6	6	4	6	6	6	8	8	5	6	6	5	5	5	4	7	7
325	Shahakavhekar Suyog	8	4	8	7	4	7	7	3	7	8	4	8	6	3	6	5	2	5
326	Rajguru Harshal	6	3	6	6	3	6	7	4	7	7	3	7	6	3	6	4	2	4
327	Deosale Manasi	3	1	3	4	2	4	5	4	5	5	3	5	3	2	3	2	1	2
328	Bankar Akanksha	6	3	6	3	1	3	7	6	7	5	2	5	6	3	6	3	1	3
329	Konkati Komal	8	4	8	5	2	5	7	3	7	6	3	6	8	4	8	4	2	4
330	Umalkar Kaustubh	4	2	4	2	1	2	3	1	3	5	3	5	2	1	2	4	2	4
331	Karadkhedkar Chaitany	7	3	7	5	2	5	8	4	8	5	2	5	5	3	5	2	1	2
332	Bisoi Krishna	8	4	8	6	3	6	6	3	6	5	3	5	4	2	4	4	5	5
333	Agarwal Mayuri	10	7	10	9	4	9	8	7	8	10	5	10	8	6	8	9	9	9
334	Sakhare Sarita	8	7	8	8	4	8	7	8	8	9	6	9	8	4	8	7	9	9
335	Shirole Amruta	3	2	3	2	1	2	5	2	5	5	2	5	4	2	4	2	1	2
336	Kadu Piyusha	8	4	8	4	2	4	7	3	7	5	3	5	3	2	3	3	2	3
337	Shete Sonali	7	6	7	4	2	4	7	5	7	8	4	8	4	2	4	2	6	6
338	Sortur Navneeth	7	9	9	4	4	4	6	8	8	8	8	8	7	9	9	5	7	7
339	Kalal Onkar	9	4	9	6	3	6	6	3	6	5	3	5	5	2	5	3	4	4
340	Kulkarni Tanmay	5	7	7	5	2	5	8	8	8	8	8	8	6	5	6	4	7	7
341	Bhokare Omkar	4	2	4	3	2	3	4	2	4	5	2	5	2	1	2	2	5	5
342	Ubale Rasika	5	5	5	3	4	4	3	5	5	7	7	7	4	7	7	4	7	7
343	Khopade Akshada	4	4	4	5	3	5	5	6	6	6	3	6	5	4	5	5	6	6
344	Shetty Varsha	9	5	9	4	2	4	6	3	6	7	4	7	6	3	6	3	4	4
345	Deshmukh Akshada	8	4	8	7	3	7	7	4	7	6	3	6	6	3	6	4	5	5
346	Purandare Abhishek	9	5	9	8	4	8	10	5	10	8	4	8	8	4	8	9	4	9



P.V.G'S College Of Science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

Roll No.	Name	CS I			CS II			CS III			CS IV			CS V			CS VI			Sign
		Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	
347	Damle Akash	5	2	5	6	3	6	7	4	7	6	3	6	7	3	7	5	2	5	
348	Bhat Jui	7	4	7	4	2	4	4	2	4	7	3	7	6	3	6	5	7	7	
349	Gade Pranjal	5	3	5	4	2	4	4	2	4	6	3	6	6	3	6	4	4	4	
350	Herekar Rutuja	8	4	8	7	3	7	7	3	7	6	3	6	6	3	6	4	4	4	
351	Bhagwat Rakhi	9	4	9	5	3	5	7	4	7	6	3	6	7	4	7	5	4	5	
352	Patole Gayatri	8	6	8	4	2	4	6	3	6	6	3	6	7	3	7	2	4	4	
353	Mulay Mugdha	7	3	7	5	2	5	7	3	7	5	2	5	7	4	7	3	2	3	
354	Gole Akash	6	3	6	6	3	6	5	3	5	6	3	6	5	2	5	4	2	4	
355	Angre Akshay	6	3	6	4	2	4	6	3	6	4	2	4	5	2	5	3	2	3	
356	Honkalas Aditya	8	8	8	5	6	6	8	9	9	8	8	8	8	9	9	6	8	8	
357	Kalyankar Ameya	6	8	8	3	7	7	6	8	8	8	9	9	8	9	9	5	8	8	
358	Dhattore Aishwarya	8	4	8	5	2	5	5	6	6	8	4	8	7	4	7	5	6	6	
359	Nagtilak Saraswati	9	9	9	5	7	7	6	8	8	6	8	8	10	10	10	4	7	7	
360	Karande Swarali	4	5	5	6	8	8	6	8	8	7	8	8	6	8	8	4	7	7	
361	Ghongade Snehalata	8	8	8	8	8	8	7	8	8	7	7	7	4	5	5	6	8	8	
362	Potdar Chinmayi	8	4	8	8	4	8	4	2	4	7	3	7	5	3	5	6	3	6	
363	Dhole Harshada	10	5	10	7	4	7	6	3	6	8	4	8	7	4	7	7	3	7	
364	Pawar Shivam	7	3	7	6	3	6	8	4	8	6	3	6	4	2	4	5	3	5	
365	Ghatge Vaikrant	5	3	5	5	2	5	7	3	7	4	2	4	5	2	5	3	2	3	
366	Kudale Rutuja	4	2	4	4	2	4	3	1	3	4	2	4	3	1	3	2	1	2	
367	Dhondage Shubham	#VALUE!	######	######	######	######	######	#VALUE!	#######	#####	#VALUE!	#VALUE!	######	######	######	######	######	#VALUE!	######	
368	Jagtap Manish	7	4	7	5	2	5	5	3	5	4	2	4	3	1	3	4	2	4	
369	Tumne Rutwin	5	2	5	1	0	1	5	5	5	5	2	5	4	2	4	5	3	5	

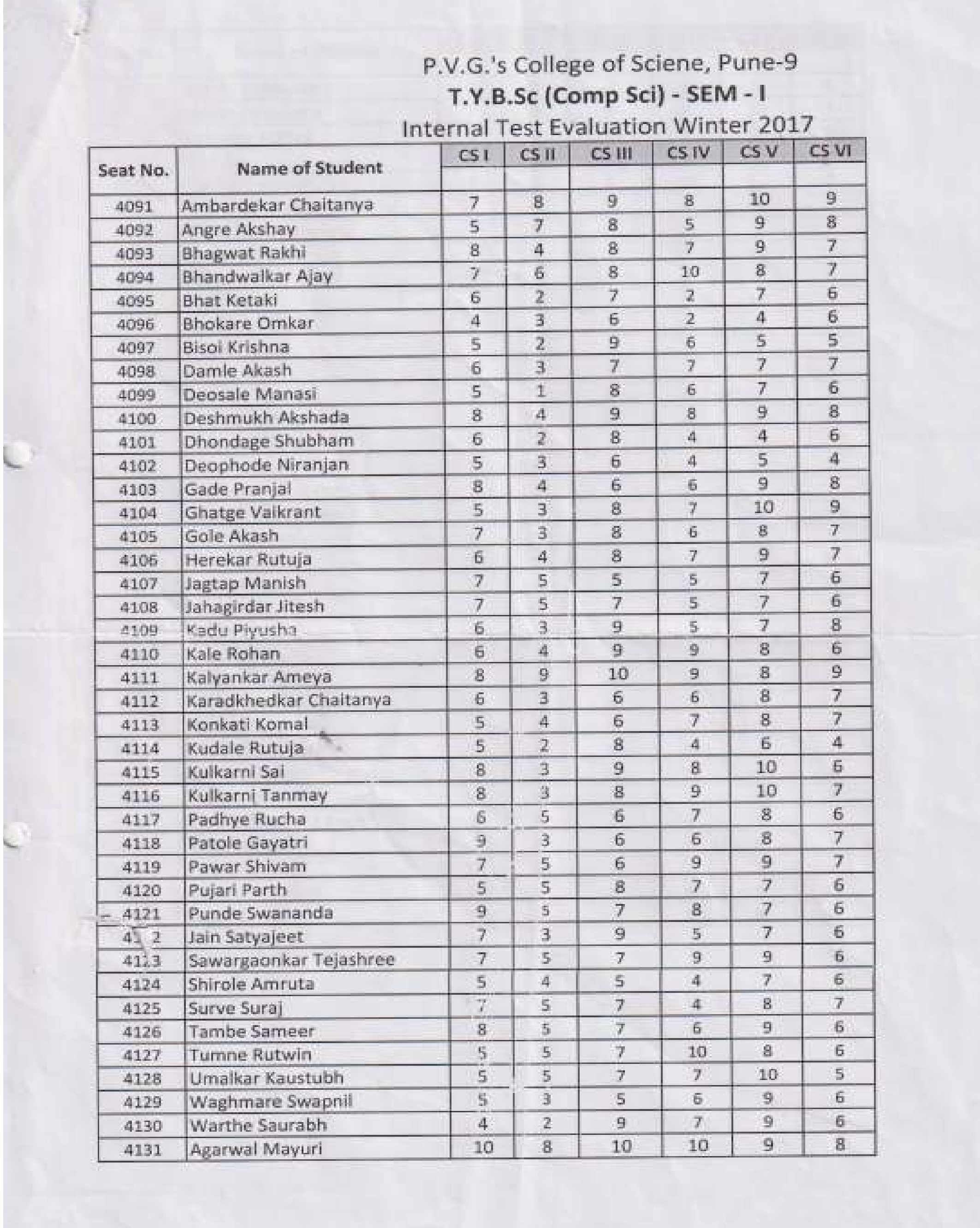


P.V.G'S College Of Science, Pune

T.Y. B.Sc. University Internal Marks Final (out of 10) Semester II (2017-18)

Roll No.	Name	CS I			CS II			CS III			CS IV			CS V			CS VI			Sign
		Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	Strategy 1 w/o attd out of 10	Strategy 2 with attd out of 10	Best of 2 out of 10	
370	Tambe Sameer	5	3	5	1	1	1	6	3	6	6	3	6	5	3	5	6	6	6	
371	Deophode Niranjan	1	3	3	4	4	4	4	5	5	5	5	5	6	3	6	2	4	4	
372	Bhandwalkar Ajay	8	4	8	4	4	4	6	3	6	5	3	5	5	3	5	3	2	3	
373	Kshirsagar Shubham	8	4	8	4	2	4	7	3	7	6	3	6	4	2	4	4	2	4	
374	Warthe Saurabh	2	1	2	3	2	3	5	2	5	5	3	5	4	2	4	2	1	2	
375	Surve Suraj	3	1	3	3	1	3	5	2	5	5	3	5	3	1	3	2	1	2	
376	Waghmare Swapnil	3	1	3	1	1	1	#VALUE!	#######	#####	#VALUE!	#VALUE!	######	######	######	######	######	#VALUE!	######	
377	Jain Satyajeet	1	1	1	3	2	3	#VALUE!	#######	#####	#VALUE!	#VALUE!	######	######	######	######	######	#VALUE!	######	

Final internal examination marks are ready to enter on SPP university website :

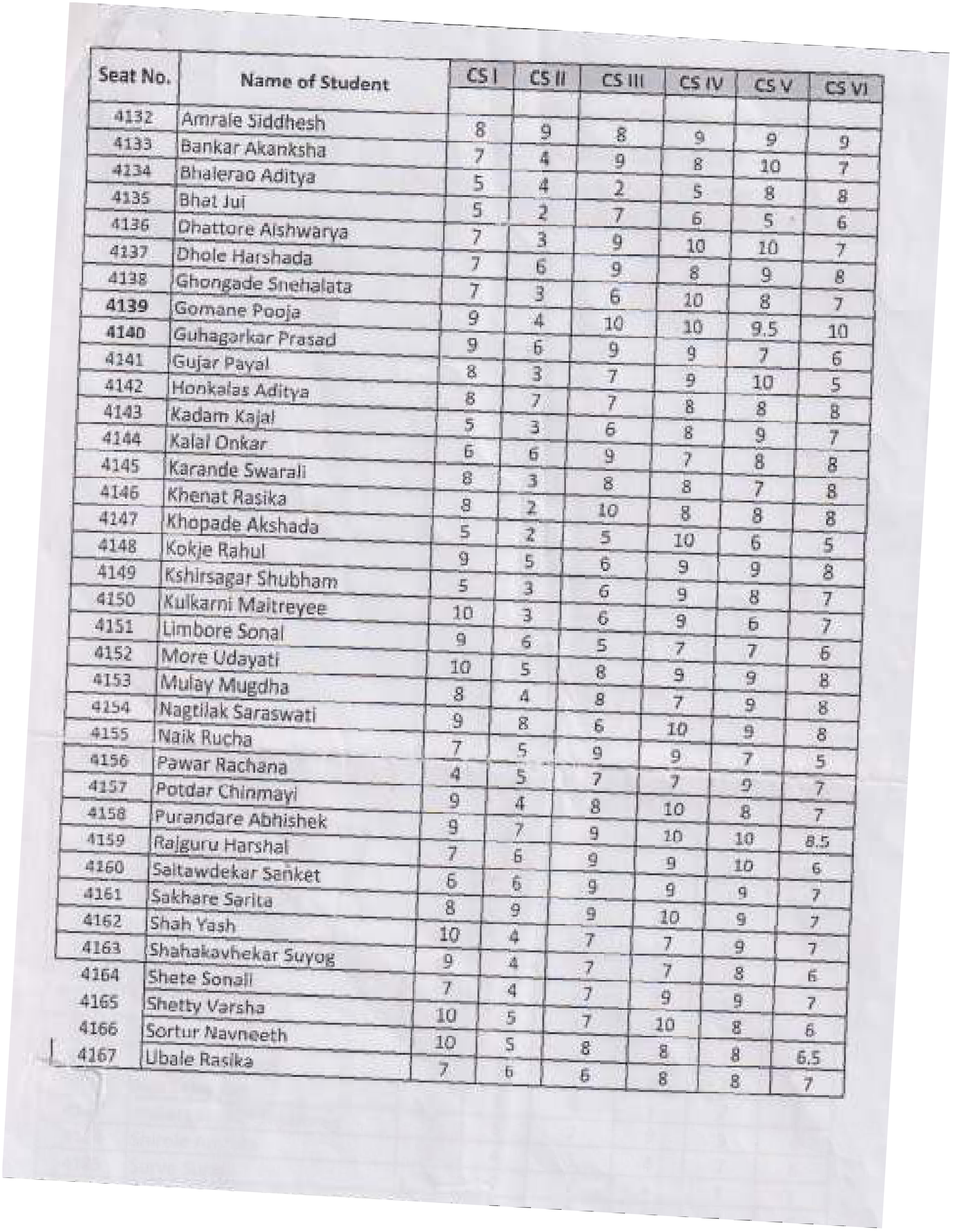


P.V.G.'s College of Sciene, Pune-9

T.Y.B.Sc (Comp Sci) - SEM - I

Internal Test Evaluation Winter 2017

Seat No.	Name of Student	CS I	CS II	CS III	CS IV	CS V	CS VI
4091	Ambardekar Chaitanya	7	8	9	8	10	9
4092	Angre Akshay	5	7	8	5	9	8
4093	Bhagwat Rakhi	8	4	8	7	9	7
4094	Bhandwalkar Ajay	7	6	8	10	8	7
4095	Bhat Ketaki	6	2	7	2	7	6
4096	Bhokare Omkar	4	3	6	2	4	6
4097	Bisoi Krishna	5	2	9	6	5	5
4098	Damle Akash	6	3	7	7	7	7
4099	Deosale Manasi	5	1	8	6	7	6
4100	Deshmukh Akshada	8	4	9	8	9	8
4101	Dhondage Shubham	6	2	8	4	4	6
4102	Deophode Niranjan	5	3	6	4	5	4
4103	Gade Pranjal	8	4	6	6	9	8
4104	Ghatge Vaikrant	5	3	8	7	10	9
4105	Gole Akash	7	3	8	6	8	7
4106	Herekar Rutuja	6	4	8	7	9	7
4107	Jagtap Manish	7	5	5	5	7	6
4108	Jahagirdar Jitesh	7	5	7	5	7	6
4109	Kadu Piyusha	6	3	9	5	7	8
4110	Kale Rohan	6	4	9	9	8	6
4111	Kalyankar Ameya	8	9	10	9	8	9
4112	Karadkhedkar Chaitanya	6	3	6	6	8	7
4113	Konkati Komal	5	4	6	7	8	7
4114	Kudale Rutuja	5	2	8	4	6	4
4115	Kulkarni Sai	8	3	9	8	10	6
4116	Kulkarni Tanmay	8	3	8	9	10	7
4117	Padhye Rucha	6	5	6	7	8	6
4118	Patole Gayatri	9	3	6	6	8	7
4119	Pawar Shivam	7	5	6	9	9	7
4120	Pujari Parth	5	5	8	7	7	6
4121	Punde Swananda	9	5	7	8	7	6
4122	Jain Satyajeet	7	3	9	5	7	6
4123	Sawargaonkar Tejashree	7	5	7	9	9	6
4124	Shirole Amruta	5	4	5	4	7	6
4125	Surve Suraj	7	5	7	4	8	7
4126	Tambe Sameer	8	5	7	6	9	6
4127	Tumne Rutwin	5	5	7	10	8	6
4128	Umalkar Kaustubh	5	5	7	7	10	5
4129	Waghmare Swapnil	5	3	5	6	9	6
4130	Warthe Saurabh	4	2	9	7	9	6
4131	Agarwal Mayuri	10	8	10	10	9	8

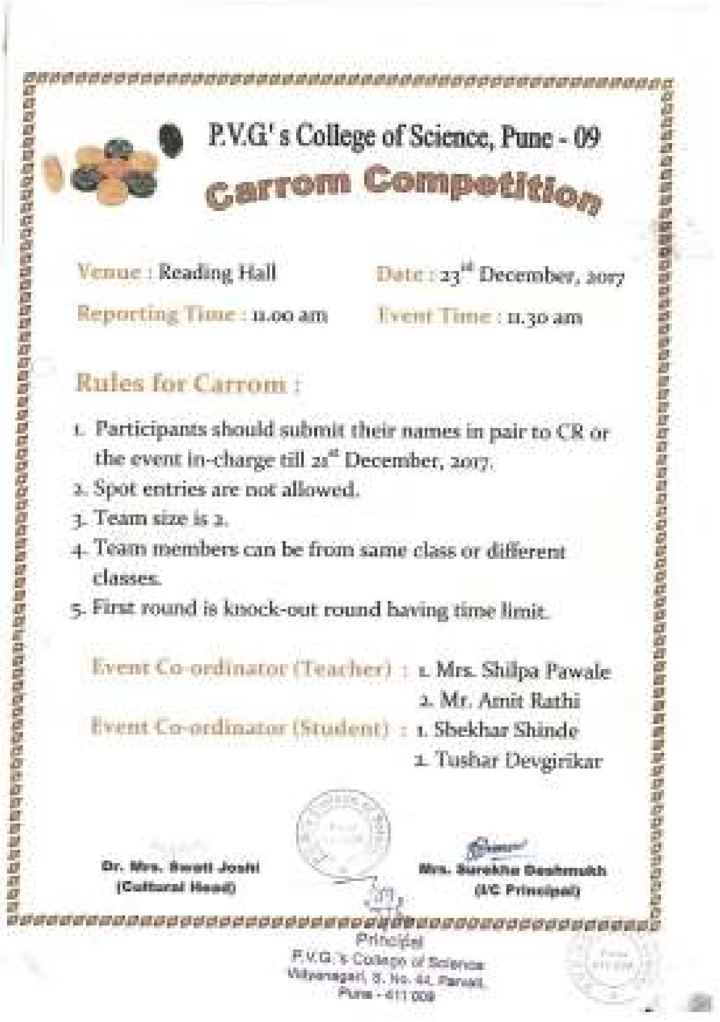


Seat No.	Name of Student	CS I	CS II	CS III	CS IV	CS V	CS VI
4132	Amrale Siddhesh	8	9	8	9	9	9
4133	Bankar Akanksha	7	4	9	8	10	7
4134	Bhalerao Aditya	5	4	2	5	8	8
4135	Bhat Jui	5	2	7	6	5	6
4136	Dhattore Aishwarya	7	3	9	10	10	7
4137	Dhole Harshada	7	6	9	8	9	8
4138	Ghongade Snehalata	7	3	6	10	8	7
4139	Gomane Pooja	9	4	10	10	9.5	10
4140	Guhagarkar Prasad	9	6	9	9	7	6
4141	Gujar Payal	8	3	7	9	10	5
4142	Honkalas Aditya	8	7	7	8	8	8
4143	Kadam Kajal	5	3	6	8	9	7
4144	Kalal Onkar	6	6	9	7	8	8
4145	Karande Swarali	8	3	8	8	7	8
4146	Khenat Rasika	8	2	10	8	8	8
4147	Khopade Akshada	5	2	5	10	6	5
4148	Kokje Rahul	9	5	6	9	9	8
4149	Kshirsagar Shubham	5	3	6	9	8	7
4150	Kulkarni Maitreyee	10	3	6	9	6	7
4151	Limbore Sonal	9	6	5	7	7	6
4152	More Udayati	10	5	8	9	9	8
4153	Mulay Mugdha	8	4	8	7	9	8
4154	Nagtilak Saraswati	9	8	6	10	9	8
4155	Naik Rucha	7	5	9	9	7	5
4156	Pawar Rachana	4	5	7	7	9	7
4157	Potdar Chinmayi	9	4	8	10	8	7
4158	Purandare Abhishek	9	7	9	10	10	8.5
4159	Rajguru Harshal	7	6	9	9	10	6
4160	Saltawdekar Sanket	6	6	9	9	9	7
4161	Sakhare Sarita	8	9	9	10	9	7
4162	Shah Yash	10	4	7	7	9	7
4163	Shahakavhekar Suyog	9	4	7	7	8	6
4164	Shete Sonali	7	4	7	9	9	7
4165	Shetty Varsha	10	5	7	10	8	6
4166	Sortur Navneeth	10	5	8	8	8	6.5
4167	Ubale Rasika	7	6	6	8	8	7

Best Practice 2:

Cultural and Sports Activity and its output:

Notice of various Competitions:



P.V.G's College of Science, Pune - 09

Carrom Competition

Venue : Reading Hall
Date : 23rd December, 2017
Reporting Time : 11.00 am
Event Time : 11.30 am

Rules for Carrom :

1. Participants should submit their names in pair to CR or the event in-charge till 21st December, 2017.
2. Spot entries are not allowed.
3. Team size is 2.
4. Team members can be from same class or different classes.
5. First round is knock-out round having time limit.

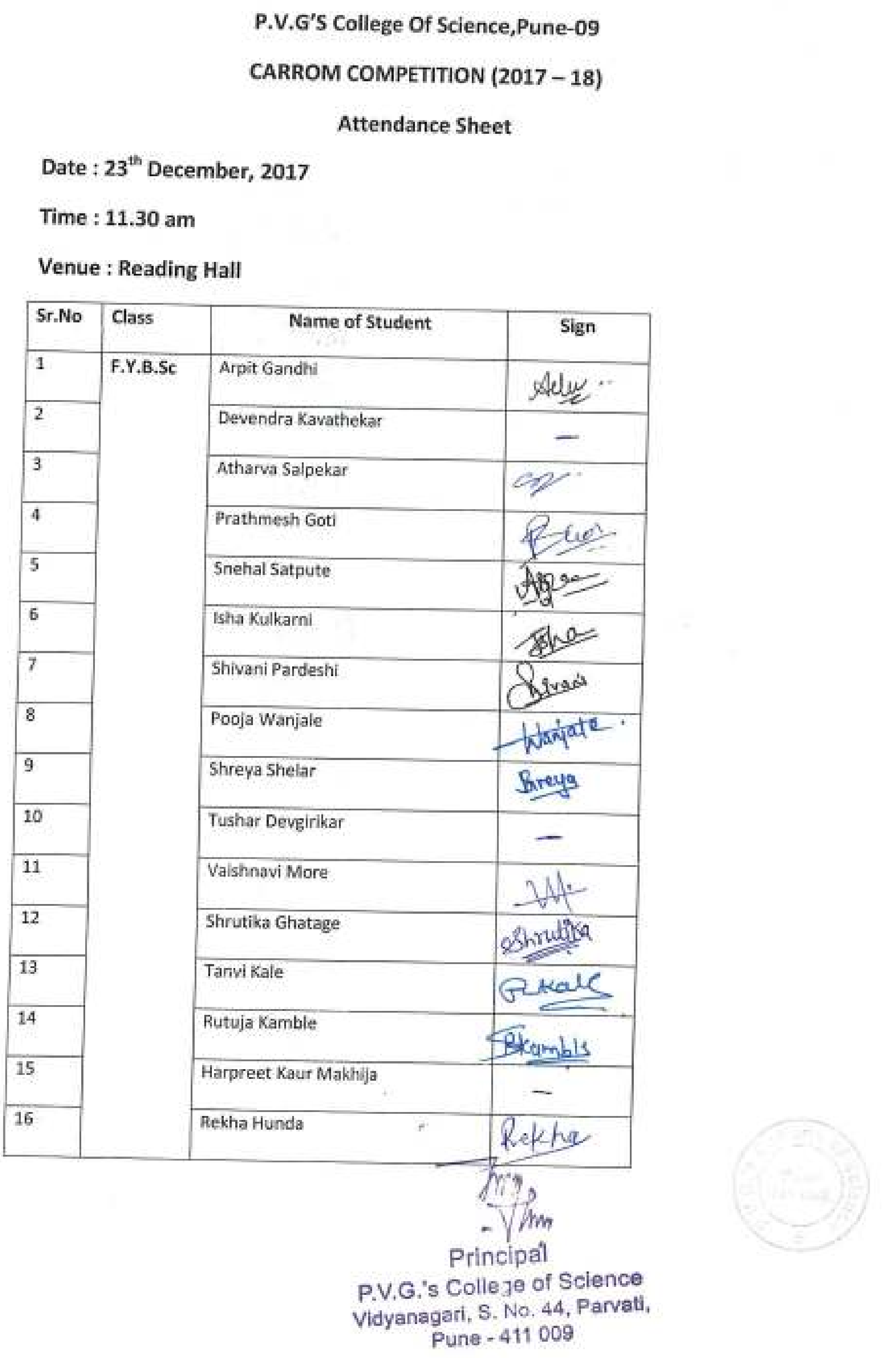
Event Co-ordinator (Teacher) : 1. Mrs. Shilpa Pawale
2. Mr. Amit Rathi

Event Co-ordinator (Student) : 1. Shekhar Shinde
2. Tushar Devgirikar

Dr. Mrs. Swati Joshi
(Cultural Head)

Mrs. Surekha Deshmukh
(I/C Principal)

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009



P.V.G'S College Of Science,Pune-09

CARROM COMPETITION (2017 – 18)

Attendance Sheet

Date : 23th December, 2017

Time : 11.30 am

Venue : Reading Hall

Sr.No	Class	Name of Student	Sign
1	F.Y.B.Sc	Arpit Gandhi	
2		Devendra Kavathekar	—
3		Atharva Salpekar	
4		Prathmesh Goti	
5		Snehal Satpute	
6		Isha Kulkarni	Isha
7		Shivani Pardeshi	Shivani
8		Pooja Wanjale	Wanjale
9		Shreya Shelar	Shreya
10		Tushar Devgirikar	—
11		Vaishnavi More	
12		Shrutika Ghatage	Shrutika
13		Tanvi Kale	R.Kale
14		Rutuja Kamble	R.Kamble
15		Harpreet Kaur Makhija	—
16		Rekha Hunda	Rekha

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

Sr.No	Class	Name of Student	Sign
39	T.Y.B.Sc	Amey Kalyankar	Amey.
40		Aditya Honkalas	Honkalas
41		Mayuri Agarwal	—
42		Aishwarya Dhattore	Dhattore
43		Ajay Bhandwalkar	
44		Chaitanya Karadkhedkar	Karadhekar
45		Sanket Saitavdekar	—
46		Omkar Bhokare	Bhokare
47		Akshay Angre	A.Angre
48		Suraj Surve	Suraj
49		Akash Gole	Gole Akash
50		Swapnil Waghmare	Waghmare
51	F.Y.M.Sc.	Sagar Pardeshi	Pardeshi
52		Ajinkya Tambe	—
53		Hrushikesh Patwardhan	Patwardhan
54		Kalyan Gadgil	—
55		Priyanka Aalhat	Priyanka
56		Chaitali Bhalerao	Chaitali B
57	S.Y.M.Sc.	Utkarsh Datar	Datar
58		Darshan Kawade	Kawade
59	M.C.A. III	Siddhant Bhutkar	Bhutkar
60		Dhairya Trivedi	Trivedi

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

P.V.G'S college of Science,Pune-09

Carrom Competition Report

Event Name: Carrom Competition
Date: 23rd December 2017
Venue:Reading Hall
Event Coordinator : Mrs.Shilpa Pawale

Pre-execution:

- Student registration classwise.
- Discussion of Rounds.
- Announcement of Rules.
- Notice displayed.
- Arrangements were made .

Post-execution:

- Total 30 teams participated in Carrom competition .
- Total four rounds were held for each of competition consisting round1,round2,semi-final and final.

Conclusion:

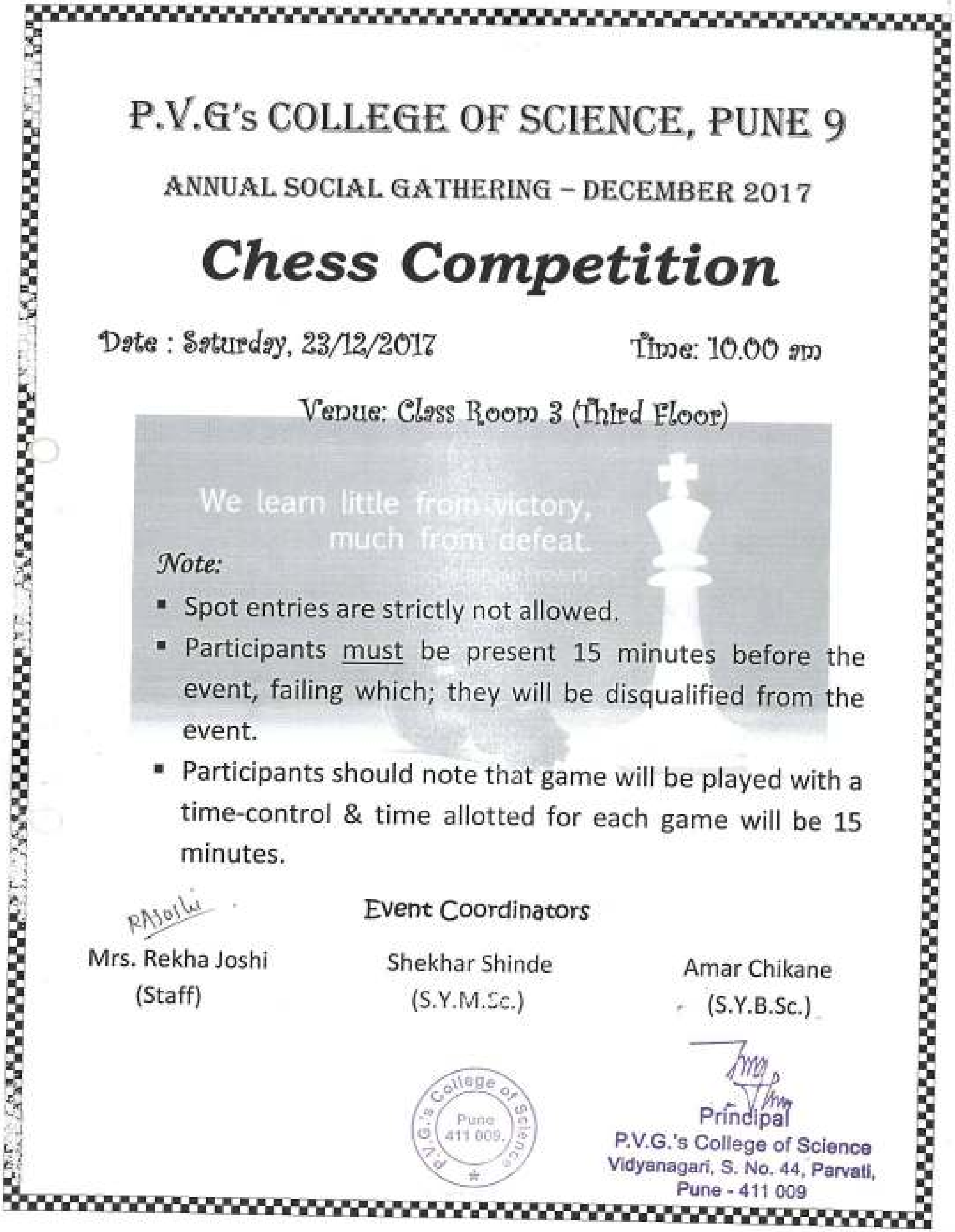
These competition had good response from students and audience were cheerful.This competition was held on 23rd December 2017at Reading Hall from 8.00 am to 3.00 pm under college annual gathering event .

These competition had good response from students and audience were cheerful.

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

Activity Photographs

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009



P.V.G's COLLEGE OF SCIENCE, PUNE 9

ANNUAL SOCIAL GATHERING – DECEMBER 2017

Chess Competition

Date : Saturday, 23/12/2017 Time: 10.00 am

Venue: Class Room 3 (Third Floor)

We learn little from victory,
much from defeat.

Note:

- Spot entries are strictly not allowed.
- Participants must be present 15 minutes before the event, failing which; they will be disqualified from the event.
- Participants should note that game will be played with a time-control & time allotted for each game will be 15 minutes.

Event Coordinators

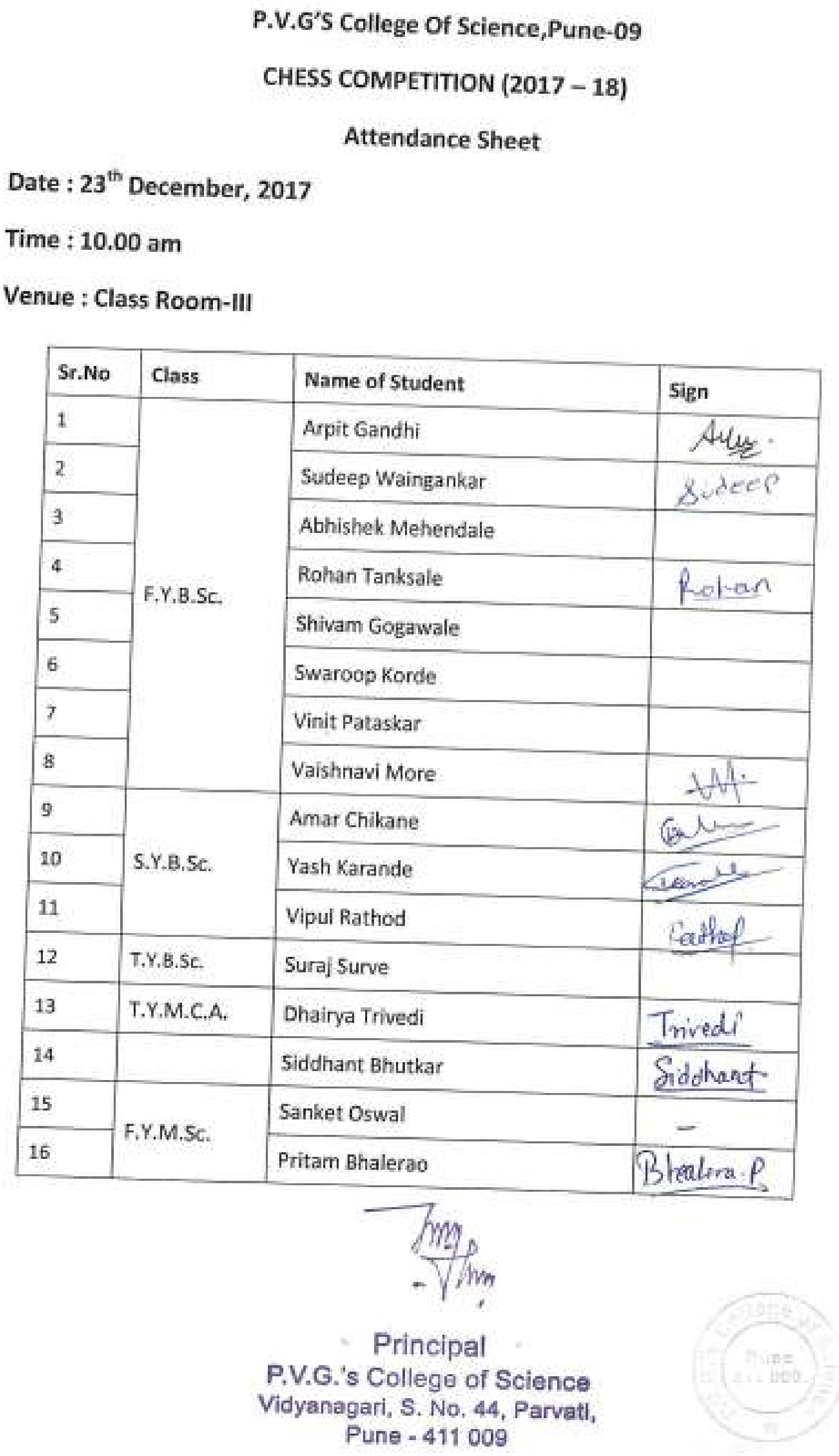
RAJoshi

Mrs. Rekha Joshi
(Staff)

Shekhar Shinde
(S.Y.M.Sc.)

Amar Chikane
(S.Y.B.Sc.)

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009



P.V.G'S College Of Science,Pune-09

CHESS COMPETITION (2017 – 18)

Attendance Sheet

Date : 23th December, 2017

Time : 10.00 am

Venue : Class Room-III

Sr.No	Class	Name of Student	Sign
1	F.Y.B.Sc.	Arpit Gandhi	
2		Sudeep Waingankar	Sudeep
3		Abhishek Mehendale	
4		Rohan Tanksale	Rohan
5		Shivam Gogawale	
6		Swaroop Korde	
7		Vinit Pataskar	
8		Vaishnavi More	
9	S.Y.B.Sc.	Amar Chikane	
10		Yash Karande	
11		Vipul Rathod	Rathod
12	T.Y.B.Sc.	Suraj Surve	
13	T.Y.M.C.A.	Dhairya Trivedi	Trivedi
14		Siddhant Bhutkar	Siddhant
15	F.Y.M.Sc.	Sanket Oswal	–
16		Pritam Bhalerao	Bhalera P

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

P.V.G'S college of Science,Pune-09

Chess Competition Report

Event Name: Carrom –Chess Competition
Date: 23rd December 2017
Venue:Reading Hall
Event Coordinator : Mrs.Rekha Joshi

Pre-execution:

- Student registration classwise.
- Discussion of Rounds.
- Announcement of Rules.
- Notice displayed.
- Arrangements were made .

Post-execution:

- Total 16 students participated in chess.
- Total four rounds were held for each of competition consisting round1,round2,semi-final and final.
- In Chess Competition Arpit Gandhi from FY was winner.

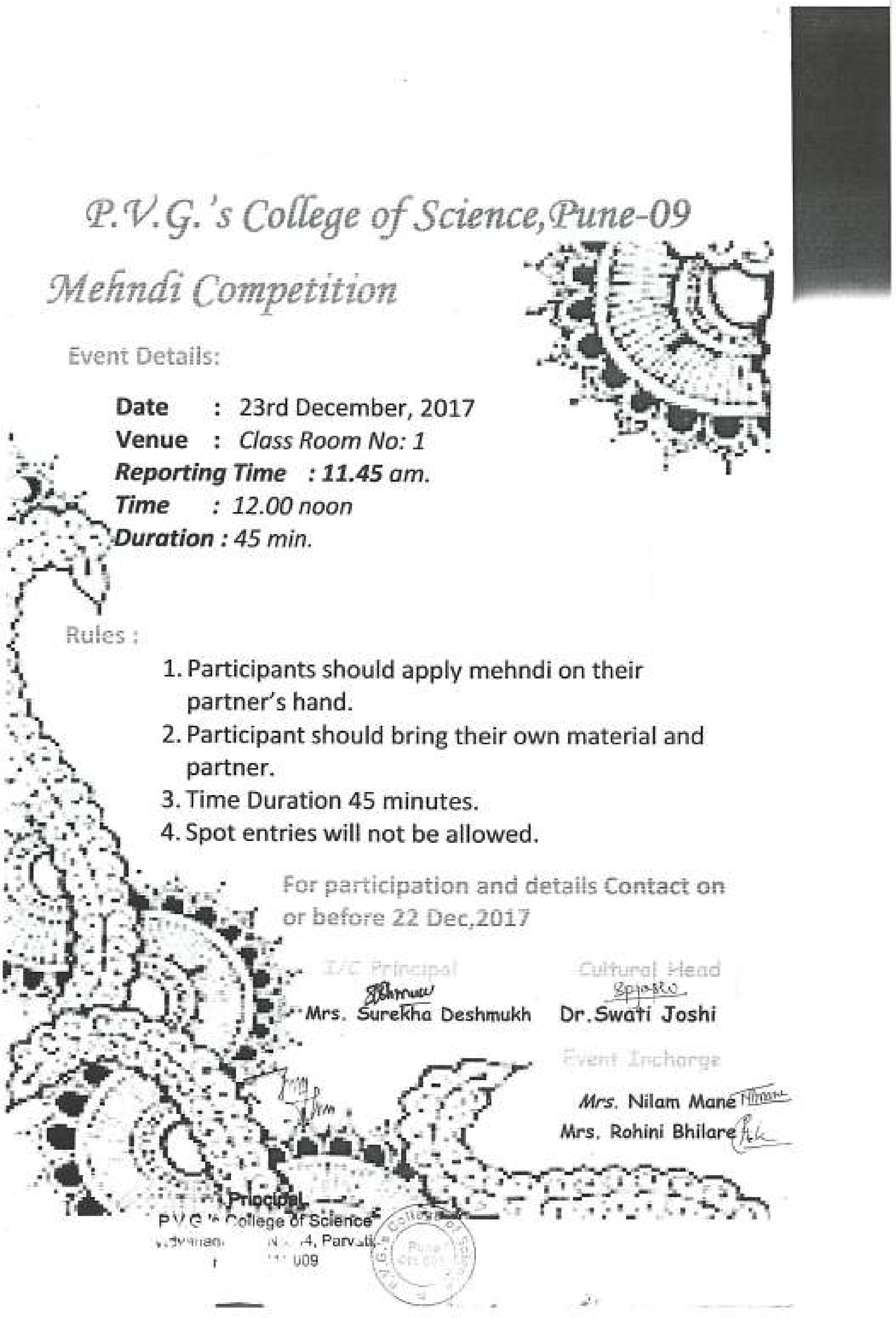
Conclusion:

These competition had good response from students and audience were cheerful.

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

Activity Photographs

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009



P.V.G.'s College of Science, Pune-09

Mehndi Competition

Event Details:

Date : 23rd December, 2017
Venue : *Class Room No: 1*
Reporting Time : ***11.45** am.*
Time : *12.00 noon*
***Duration** : 45 min.*

Rules :

1. Participants should apply mehndi on their partner's hand.
2. Participant should bring their own material and partner.
3. Time Duration 45 minutes.
4. Spot entries will not be allowed.

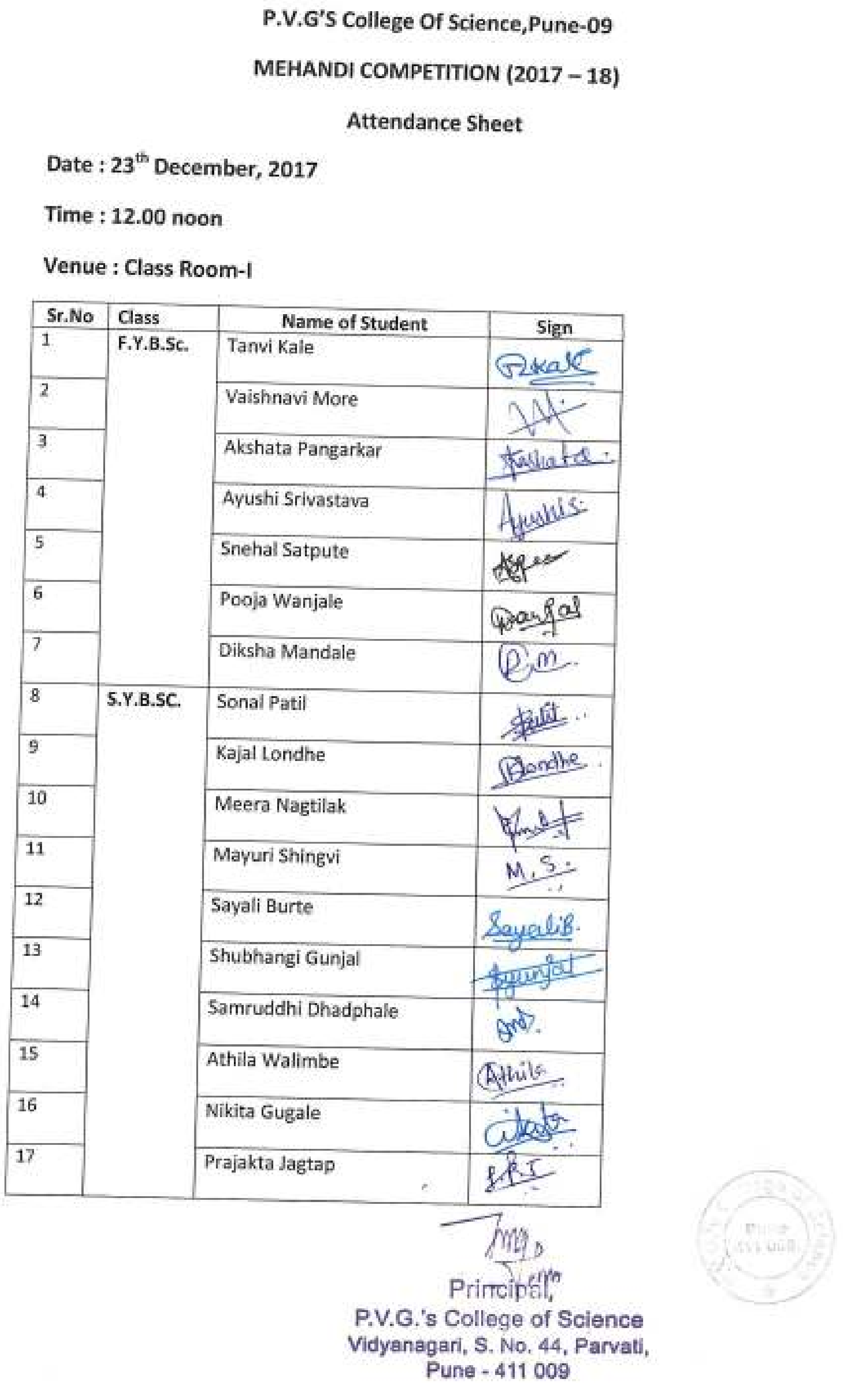
For participation and details Contact on or before 22 Dec,2017

I/C Principal
Mrs. Surekha Deshmukh

Cultural Head
Dr.Swati Joshi

Event Incharge
Mrs. Nilam Mane
Mrs. Rohini Bhilare

Principal
P.V.G.'s College of Science
[illegible] 4, Parvati
[illegible] 009



P.V.G'S College Of Science,Pune-09

MEHANDI COMPETITION (2017 – 18)

Attendance Sheet

Date : 23th December, 2017

Time : 12.00 noon

Venue : Class Room-I

Sr.No	Class	Name of Student	Sign
1	F.Y.B.Sc.	Tanvi Kale	
2		Vaishnavi More	
3		Akshata Pangarkar	
4		Ayushi Srivastava	Ayushi
5		Snehal Satpute	
6		Pooja Wanjale	
7		Diksha Mandale	
8	S.Y.B.SC.	Sonal Patil	Patil
9		Kajal Londhe	Londhe
10		Meera Nagtilak	
11		Mayuri Shingvi	M. S.
12		Sayali Burte	SayaliB.
13		Shubhangi Gunjal	
14		Samruddhi Dhadphale	
15		Athila Walimbe	Athila
16		Nikita Gugale	
17		Prajakta Jagtap	

Principal,
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

P.V.G'S College Of Science

MEHANDI COMPEITITION

Sr.No.	Class	Name Of Students	Creativity (5M)	Fineness (5M)	Sharpness (5M)	Design (5M)	Total (20M)
1	FY	Tanvi Kale	2	2	2	3	09
2		Vaishnavi More	3	2	2	2	09
3		Akshata Pangarkar					
4		Ayushi Srivastava	3	3	3	2	11
5		Snehal Satpute	3	2	2	2	09
6		Pooja Wanjale					
7		Diksha Mandale					
8	SY	Sonal Patil Ab					
9		Kajal Londhe Ab					
10		Meera Nagtilak	2	2	2	2	08
11		Mayuri Shingvi	4	4	4	2	14
12		Sayali Burte	4	4	4	3	15
13		Shubhangi Gunjal	5	5	5	5	20
14		Samruddhi Dhadphale	2	2	3	2	09
15		Athila Walimbe ~~Sujata Vakse~~	2	2	3	2	09
16		Prajakta Jagtap Ab					
17	TY	Aishwarya Dhattore	3	3	3	4	13
18		Mayuri Agarwal ~~Akshada Khopde~~	2	2	2	3	09
19		Amruta Shirole Ab					
20	Mcs I	Surabhi Pardeshi	3	3	3	3	12
21·	S.Y	Nikita Gugale	2	2	1	1	

Spparlu

In charge Principal	Cultural Head	Event Coordinator
Mrs.Surekha Deshmukh	Dr.Mrs.Swati Joshi	Mrs.Nilam Mane Mrs.Rohini Bhilare

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P.V.G'S College Of Science

MEHANDI COMPEITITION

Sr.No.	Class	Name Of Students	Creativity (5M)	Fineness (5M)	Sharpness (5M)	Design (5M)	Total (20M)
1	FY	Tanvi Kale	4	3	3	4	14
2		Vaishnavi More	4	3	2	4	13
3		Akshata Pangarkar					
4		Ayushi Srivastava	4	3	4	5	16
5		Snehal Satpute	2	5	3	4	14
6		Pooja Wanjale					
7		Diksha Mandale					
8	SY	Sonal Patil Ab					
9		Kajal Londhe Ab					
10		Meera Nagtilak	3	4	3	2	12
11		Mayuri Shingvi	4	3	4	4	15
12		Sayali Burte	4	2	3	4	13
13		Shubhangi Gunjal	3	4	3	5	⑮
14		Samruddhi Dhadphale	3	2	2	3	10
15		Abhila Halimbe ~~Sujata Vakse~~	3	2	3	3	11
16		Prajakta Jagtap Ab					
17	TY	Aishwarya Dhattore	4	3	3	4	14
18		Mayuri Agrawal ~~Akshada Khopde~~	3	4	4	3	14
19		Amruta Shirole Ab					
20	Mcs I	Surabhi Pardeshi	4	5	5	4	⑱
21.	SY.	Nikita Gugale	2	3	2	2	

15 + 20 + 12 + 19 + 13
= 79

In charge Principal

Mrs.Surekha Deshmukh

Cultural Head

SPJoshi

Dr.Mrs.Swati Joshi

Event Coordinator

Mrs.Nilam Mane
Mrs.Rohini Bhilare

18x

Principal
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Pune - 411 009

Pune
411 009

P.V.G'S College Of Science

MEHANDI COMPEITITION

Sr.No.	Class	Name Of Students	Creativity (5M)	Fineness (5M)	Sharpness (5M)	Design (5M)	Total (20M)
1	FY	Tanvi Kale	2	2	2	2	8
2		Vaishnavi More	2	2	2	2	8
3		Akshata Pangarkar					
4		Ayushi Srivastava	3	2	2	2	9
5		Snehal Satpute	3	2	2	3	10
6		Pooja Wanjale					
7		Diksha Mandale					
8	SY	Sonal Patil Ab					
9		Kajal Londhe Ab					
10		Meera Nagtilak					
11		Mayuri Shingvi	3	3	3	3	12
12		Sayali Burte	3	3	3	3	12
13		Shubhangi Gunjal	3	3	3	3	12
14		Samruddhi Dhadphale	2	2	2	3	9
15		Athila Walimbe ~~Sujata Vakse~~	2	2	2	2	8
16		Prajakta Jagtap Ab					
17	TY	Aishwarya Dhattore	3	3	3	3	12
18		Mayuri Agarwal ~~Akshada Khopde~~	2	3	2	2	9
19		Amruta Shirole Ab					
20	Mcs I	Surabhi Pardeshi	3	4	3	2	12
21	S.Y.	Nikita Gugale	1	1	1	1	4

In charge Principal

Mrs.Surekha Deshmukh

Cultural Head

SPJoshi

Dr.Mrs.Swati Joshi

Event Coordinator

Mrs.Nilam Mane
Mrs.Rohini Bhilare

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P.V.G'S College Of Science

MEHANDI COMPEITITION

Sr.No.	Class	Name Of Students	Creativity (5M)	Fineness (5M)	Sharpness (5M)	Design (5M)	Total (20M)
1	FY	Tanvi Kale	2	3	2	2	9
2		Vaishnavi More	4	3	2	3	12
3		Akshata Pangarkar					
4		Ayushi Srivastava	3	3	3	4	13
5		Snehal Satpute	3	3	2	2	10
6		Pooja Wanjale					
7		Diksha Mandale					
8	SY	Sonal Patil Ab					
9		Kajal Londhe Ab					
10		Meera Nagtilak	3	4	2	3	12
11		Mayuri Shingvi	4	4	2	3	13
12		Sayali Burte	5	5	5	4	19
13		Shubhangi Gunjal	5	5	4	5	19
14		Samruddhi Dhadphale	4	3	4	4	15
15		Athila Walimbe ~~Sujata Vakse~~	2	3	2	2	09
16		Prajakta Jagtap Ab					
17	TY	Aishwarya Dhattore	5	3	3	4	15
18		Mayuri Agarwal ~~Akshada Khopde~~	3	3	3	2	11
19		Samx Amruta Shirole Ab					
20	Mcs I	~~Surabhi Pardeshi~~					
21	S.Y	Nikita Gugale					

In charge Principal

Mrs.Surekha Deshmukh

Cultural Head

SJoshi

Dr.Mrs.Swati Joshi

Event Coordinator

Mrs.Nilam Mane
Mrs.Rohini Bhilare

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P.V.G'S college of Science,Pune-09

Mehendi Competition Report

Event Name: Mehendi Competition
Date: 23th December, 2017
Team Members:

Pre-execution:

- Deciding venue,time member was held on 16th Dec 2016
- Student registration classwise.
- Discussion about how to increase the actual participation of Students.
- Deadline for collecting the students participation entries.
- Notice displayed .
- Arrangements were made .

Post-execution:

- The entries for participation were collected by the class representatives.
- Took review of Registration and actual participation of candidates where total number of registered candidates was 21 .
- Review,feedback of competition was taken

Conclusion: We got tremendous response by student and wonderful faculties.

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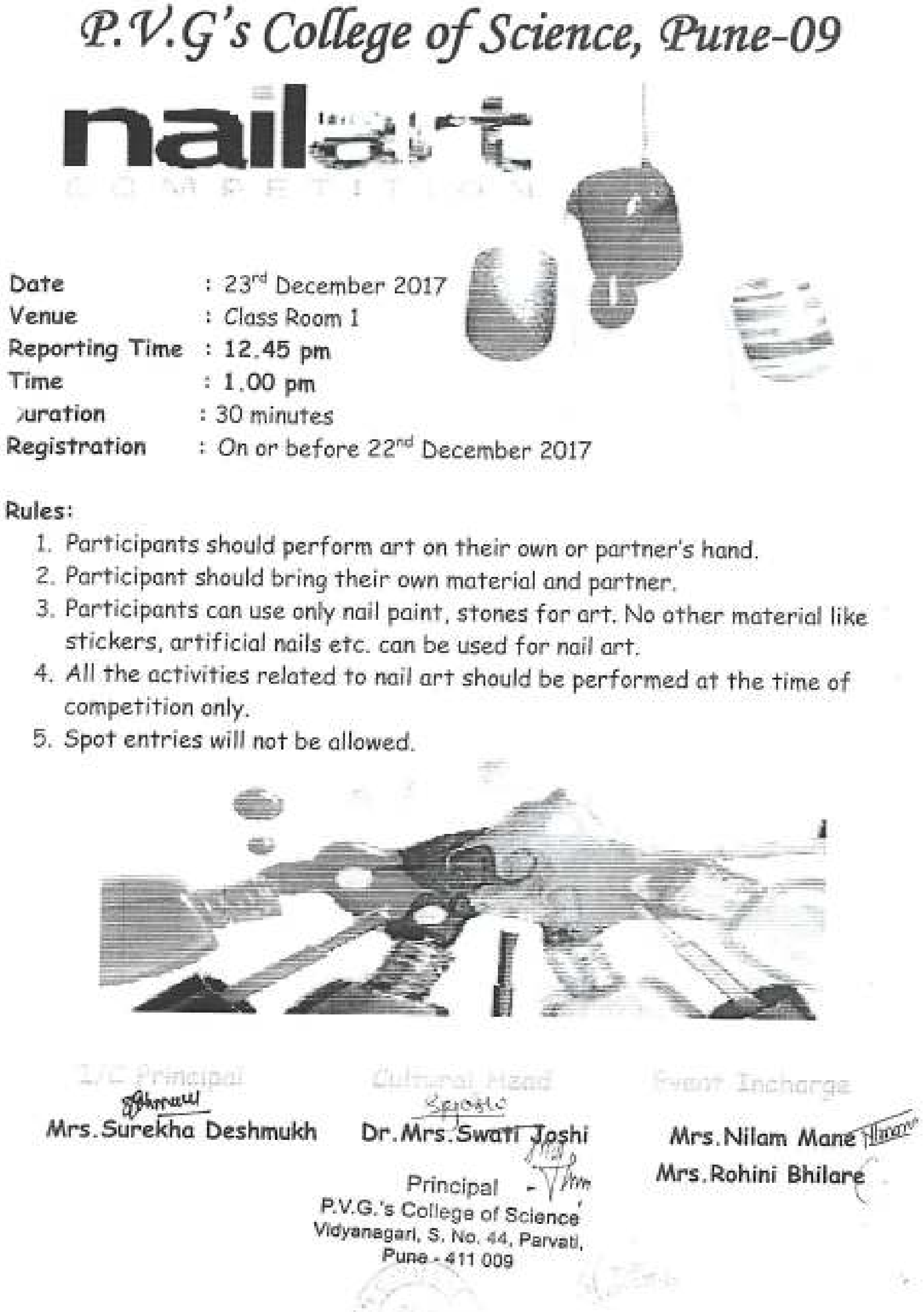

P.V.G's College of Science, Pune-09

nail art
COMPETITION

Date : 23rd December 2017
Venue : *Class Room 1*
Reporting Time : 12.45 pm
Time : 1.00 pm
Duration : 30 minutes
Registration : On or before 22nd December 2017

Rules:

1. Participants should perform art on their own or partner's hand.
2. Participant should bring their own material and partner.
3. Participants can use only nail paint, stones for art. No other material like stickers, artificial nails etc. can be used for nail art.
4. All the activities related to nail art should be performed at the time of competition only.
5. Spot entries will not be allowed.

I/C Principal
Mrs. Surekha Deshmukh

Cultural Head
Dr. Mrs. Swati Joshi

Event Incharge
Mrs. Nilam Mane
Mrs. Rohini Bhilare

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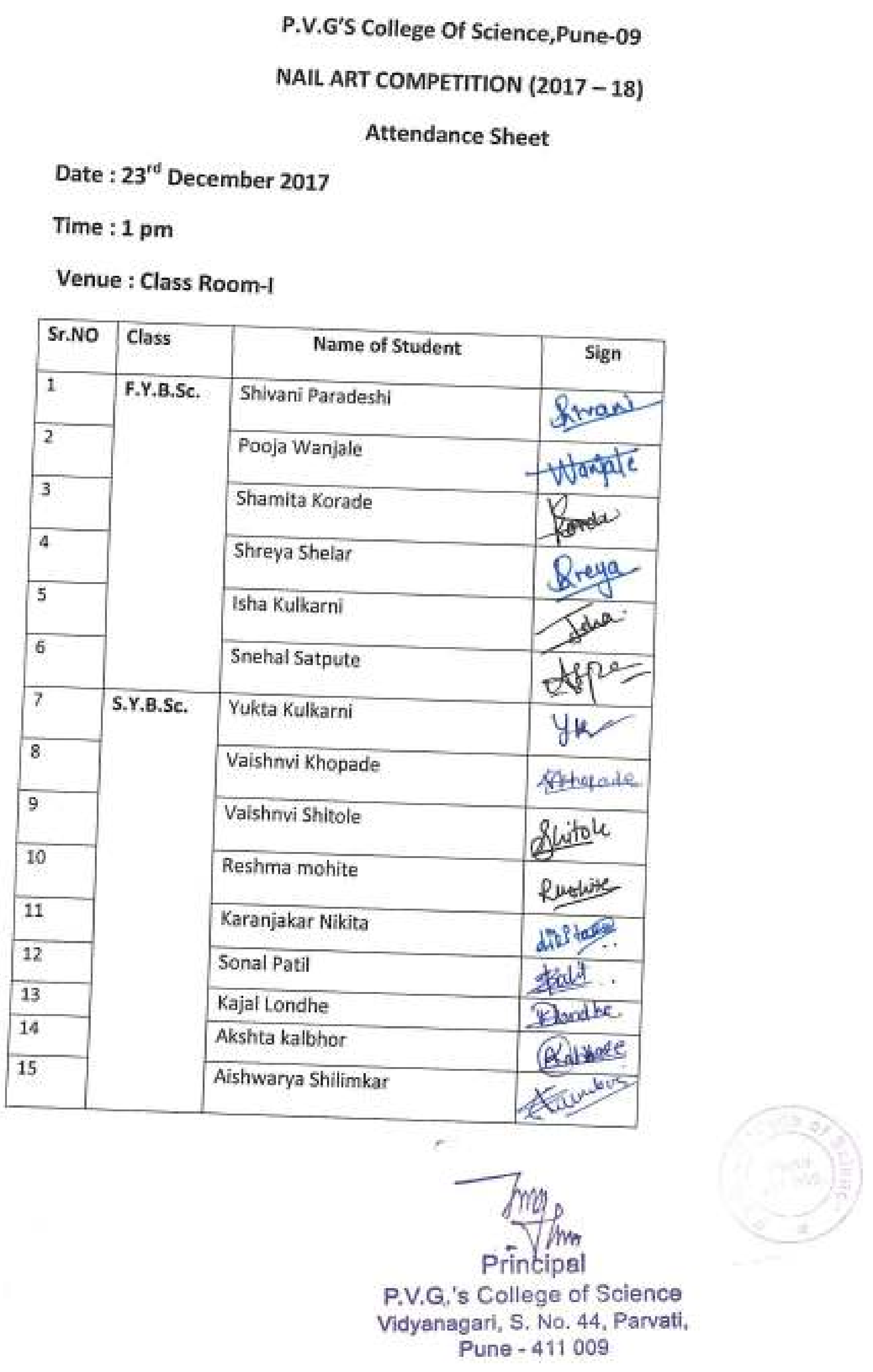

P.V.G'S College Of Science,Pune-09

NAIL ART COMPETITION (2017 – 18)

Attendance Sheet

Date : 23rd December 2017

Time : 1 pm

Venue : Class Room-I

Sr.NO	Class	Name of Student	Sign
1	F.Y.B.Sc.	Shivani Paradeshi	Shivani
2		Pooja Wanjale	Wanjale
3		Shamita Korade	Korade
4		Shreya Shelar	Shreya
5		Isha Kulkarni	Isha
6		Snehal Satpute	
7	S.Y.B.Sc.	Yukta Kulkarni	Yk
8		Vaishnvi Khopade	Khopade
9		Vaishnvi Shitole	Shitole
10		Reshma mohite	
11		Karanjakar Nikita	
12		Sonal Patil	
13		Kajal Londhe	Londhe
14		Akshta kalbhor	
15		Aishwarya Shilimkar	

Principal
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P.V.G'S College Of Science

NAIL ART COMPEITITION

Sr.No.	Class	Name Of Students	Creativity (5M)	Sharpness (5M)	Color (5M)	Design (5M)	Total (20M)
1	FY	Snehal Satpute	4	4	4	4	16
2		Shreya Shelar	5	5	5	4	19
3	SY	Nikita Gugle	4	3	3	3	13
4							
5							
6							
7							

In charge Principal	Cultural Head	Event Coordinator
Mrs.Surekha Deshmukh	Dr.Mrs.Swati Joshi	Mrs.Nilam Mane Mrs.Robini Bhilare

Principal
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P.V.G'S College Of Science

NAIL ART COMPEITITION

Sr.No.	Class	Name Of Students	Creativity (5M)	Sharpness (5M)	Color (5M)	Design (5M)	Total (20M)
1	FY	Snehal Satpute	5	5	5	04	19
2		Shreya Shelar	5	4	4	5	18
3	SY	Nikita Gugle	4	4	4	4	16
4							
5							
6							
7							

In charge Principal

Mrs.Surekha Deshmukh

Cultural Head

Dr.Mrs.Swati Joshi

Event Coordinator

Mrs.Nilam Mane
Mrs.Rohini Bhilare

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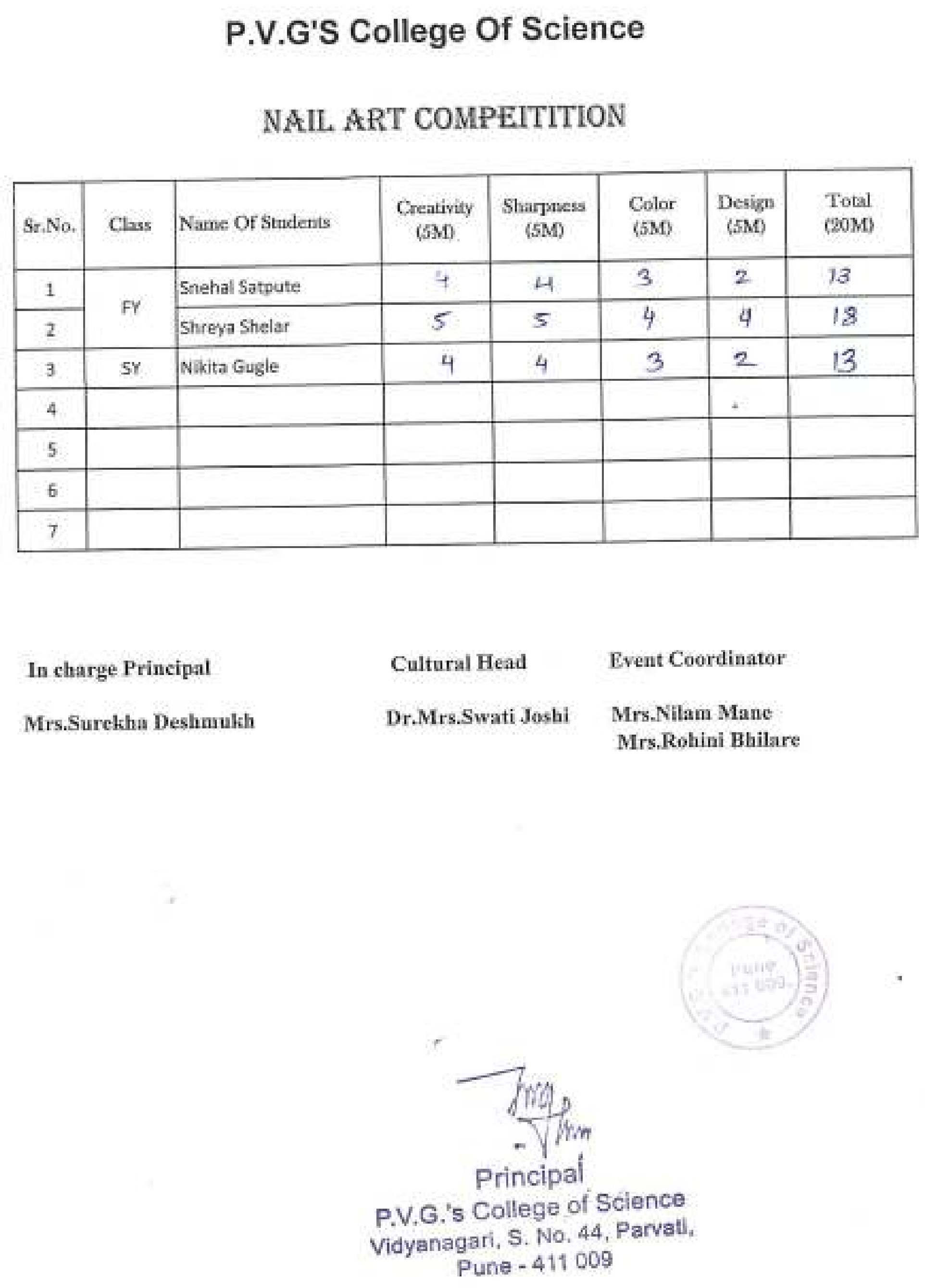

P.V.G'S College Of Science

NAIL ART COMPEITITION

Sr.No.	Class	Name Of Students	Creativity (5M)	Sharpness (5M)	Color (5M)	Design (5M)	Total (20M)
1	FY	Snehal Satpute	4	4	3	2	13
2		Shreya Shelar	5	5	4	4	18
3	SY	Nikita Gugle	4	4	3	2	13
4							
5							
6							
7							

In charge Principal
Mrs.Surekha Deshmukh

Cultural Head
Dr.Mrs.Swati Joshi

Event Coordinator
Mrs.Nilam Mane
Mrs.Rohini Bhilare

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NAIL ART COMPEITITION

Sr.No.	Class	Name Of Students	Creativity (5M)	Sharpness (5M)	Color (5M)	Design (5M)	Total (20M)
1	FY	Snehal Satpute	5	4	3	3	15
2		Shreya Shelar	5	5	5	4	19
3	SY	Nikita Gugle	5	5	3	3	16
4							
5							
6							
7							

In charge Principal
Mrs.Surekha Deshmukh

Cultural Head
Dr.Mrs.Swati Joshi

Event Coordinator
Mrs.Nilam Mane
Mrs.Rohini Bhilare

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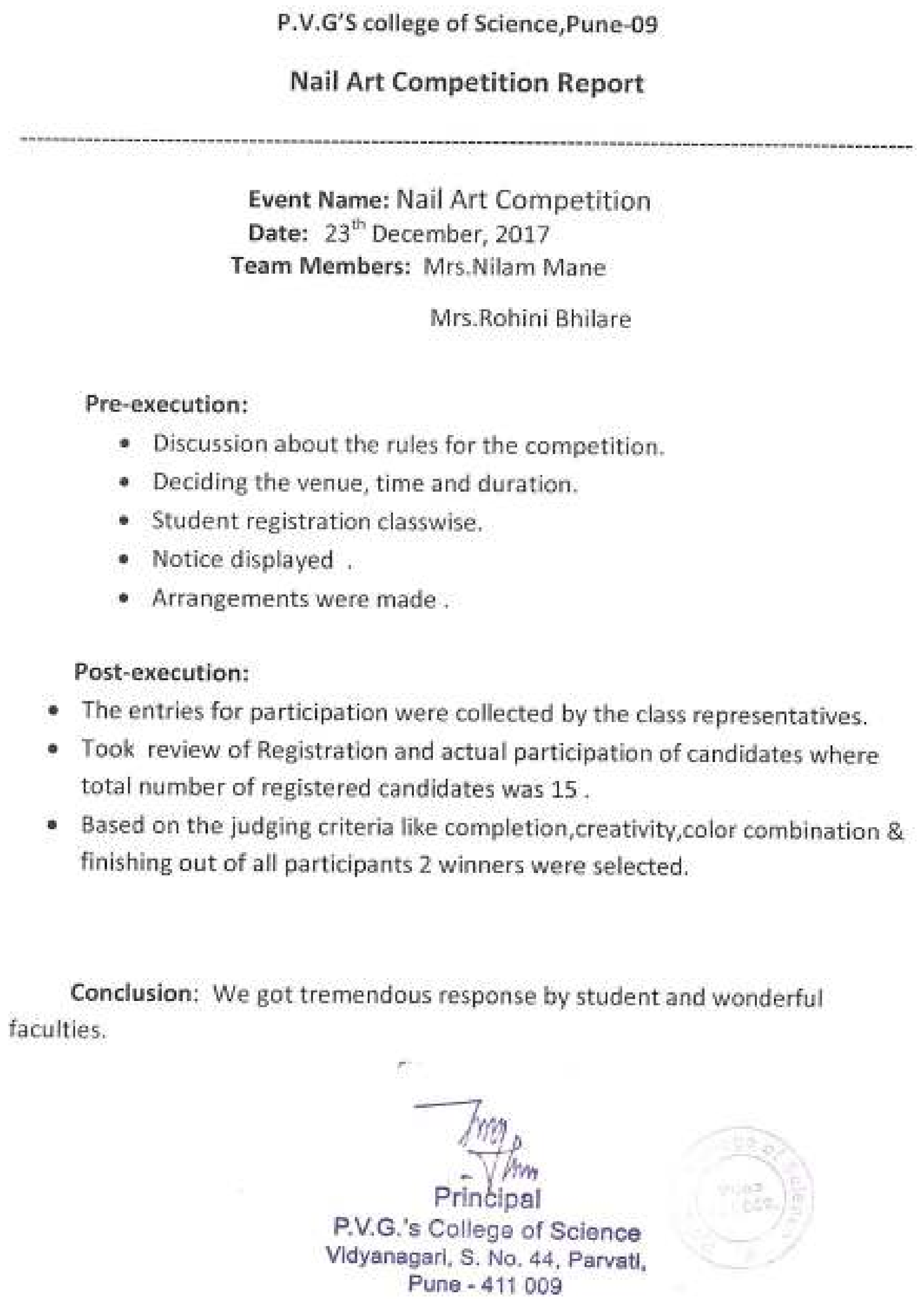

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Nail Art Competition Report

Event Name: Nail Art Competition
Date: 23th December, 2017
Team Members: Mrs.Nilam Mane
Mrs.Rohini Bhilare

Pre-execution:

- Discussion about the rules for the competition.
- Deciding the venue, time and duration.
- Student registration classwise.
- Notice displayed .
- Arrangements were made .

Post-execution:

- The entries for participation were collected by the class representatives.
- Took review of Registration and actual participation of candidates where total number of registered candidates was 15 .
- Based on the judging criteria like completion,creativity,color combination & finishing out of all participants 2 winners were selected.

Conclusion: We got tremendous response by student and wonderful faculties.

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Pune - 411 009

HAIR STYLE

P.V.G's College Of Science

Date:23.12.2017 Venue:Classroom 2 Reporting Timing:8.30am

Rules:

Each competitor must be present with their partner.

The use of color is optional, but must be pre-done and must complement style.

Extensions are allowed but must be done in advance.

Imagination and creativity will be the key focus and displayed in the Completed work.

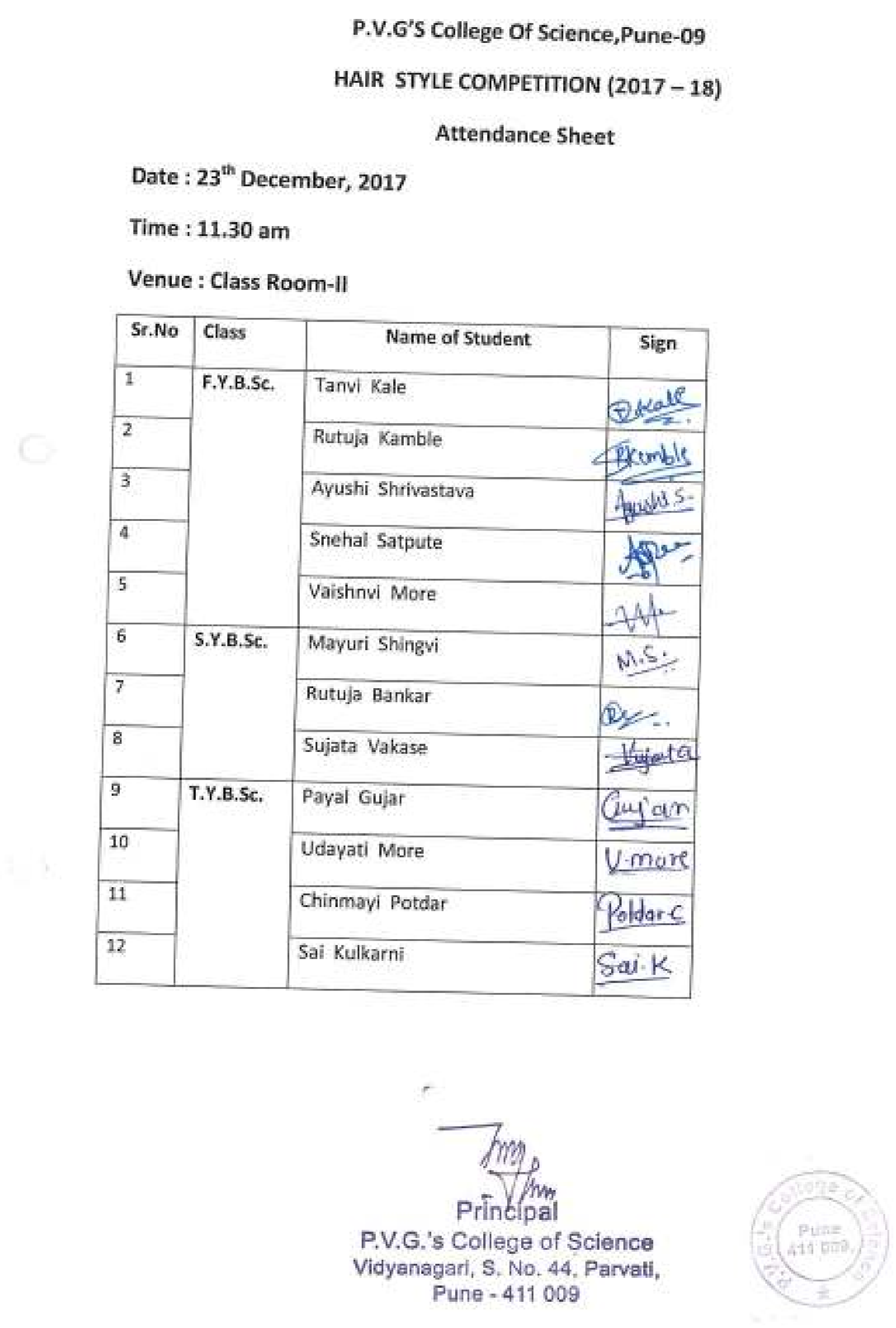
Participant must carry their own hairstyle material.

Time limit for hairstyle competition is one hour.

Event Co-ordinator
Mrs.Shilpa Shingote

Cultural Head
Mrs.Sunit Joshi

I/C Principal
Mrs.Surekha Deshmukh



P.V.G'S College Of Science,Pune-09

HAIR STYLE COMPETITION (2017 – 18)

Attendance Sheet

Date : 23th December, 2017

Time : 11.30 am

Venue : Class Room-II

Sr.No	Class	Name of Student	Sign
1	F.Y.B.Sc.	Tanvi Kale	T.Kale
2		Rutuja Kamble	R.Kamble
3		Ayushi Shrivastava	Ayushi S.
4		Snehal Satpute	
5		Vaishnvi More	
6	S.Y.B.Sc.	Mayuri Shingvi	M.S.
7		Rutuja Bankar	
8		Sujata Vakase	Sujata
9	T.Y.B.Sc.	Payal Gujar	Gujar
10		Udayati More	V.more
11		Chinmayi Potdar	Potdar C
12		Sai Kulkarni	Sai. K

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Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

P.V.G'S college of Science,Pune-09

Hair Style Competition Report

Event Name: Hair Style Competition
Date: 23th December, 2017
Team Member: Ms.Shilpa Shingate

Pre-execution:

- Discussion about the rules for the competition.
- Deciding the venue, time and duration.
- Student registration classwise.
- Notice displayed .
- Arrangements were made .

Post-execution:

- The entries for participation were collected by the class representatives.
- Took review of Registration and actual participation of candidates where total number of registered candidates was 12 .
- Based on the judging criteria like completion,creativity, & finishing out of all participants 1 winner was selected.

Conclusion: We got tremendous response by student and wonderful faculties.

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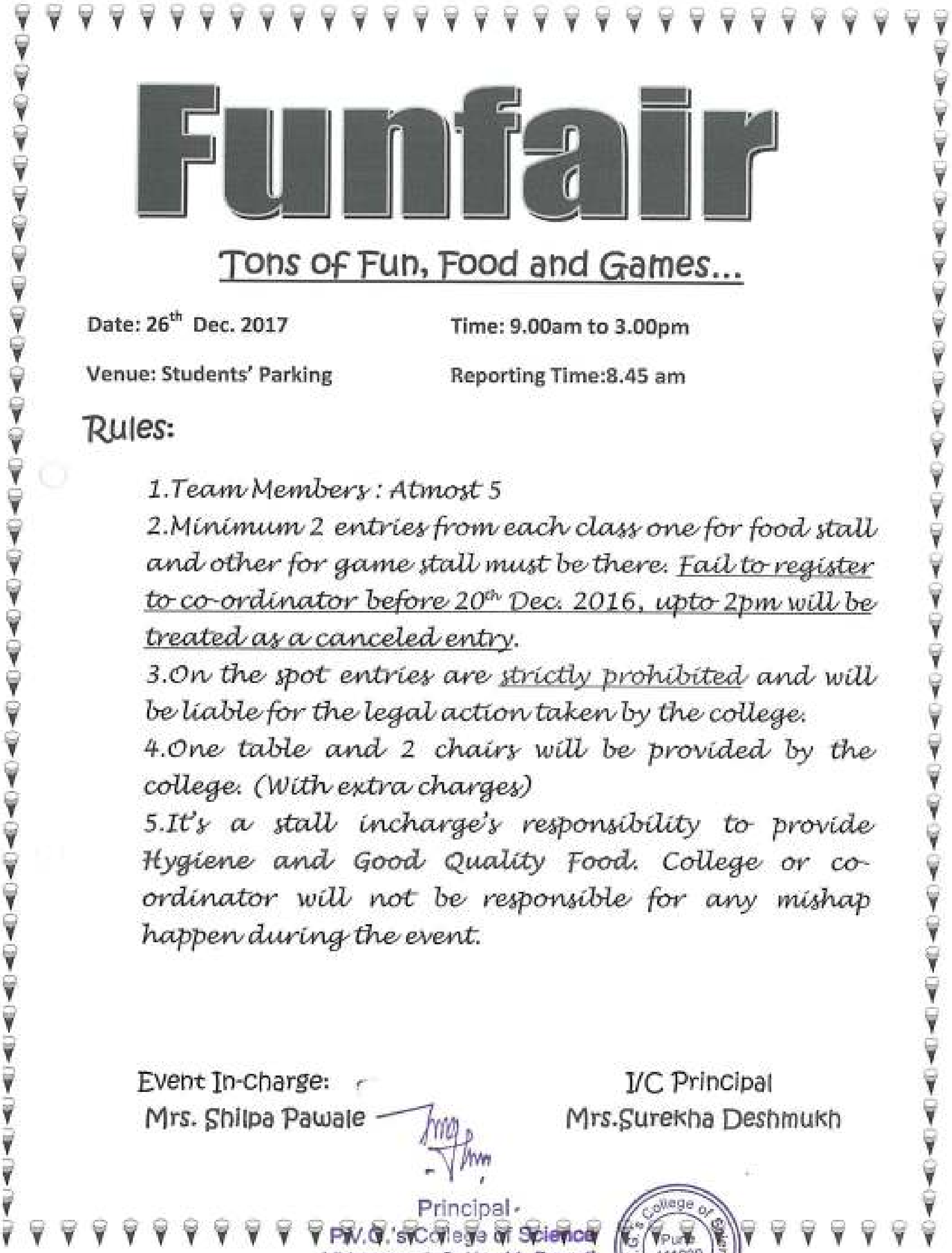

Funfair

Tons of Fun, Food and Games...

Date: 26th Dec. 2017 Time: 9.00am to 3.00pm

Venue: Students' Parking Reporting Time:8.45 am

Rules:

1.Team Members : Atmost 5
2.Minimum 2 entries from each class one for food stall and other for game stall must be there. Fail to register to co-ordinator before 20th Dec. 2016, upto 2pm will be treated as a canceled entry.
3.On the spot entries are strictly prohibited and will be liable for the legal action taken by the college.
4.One table and 2 chairs will be provided by the college. (With extra charges)
5.It's a stall incharge's responsibility to provide Hygiene and Good Quality Food. College or co-ordinator will not be responsible for any mishap happen during the event.

Event In-charge:
Mrs. Shilpa Pawale

I/C Principal
Mrs.Surekha Deshmukh

Principal
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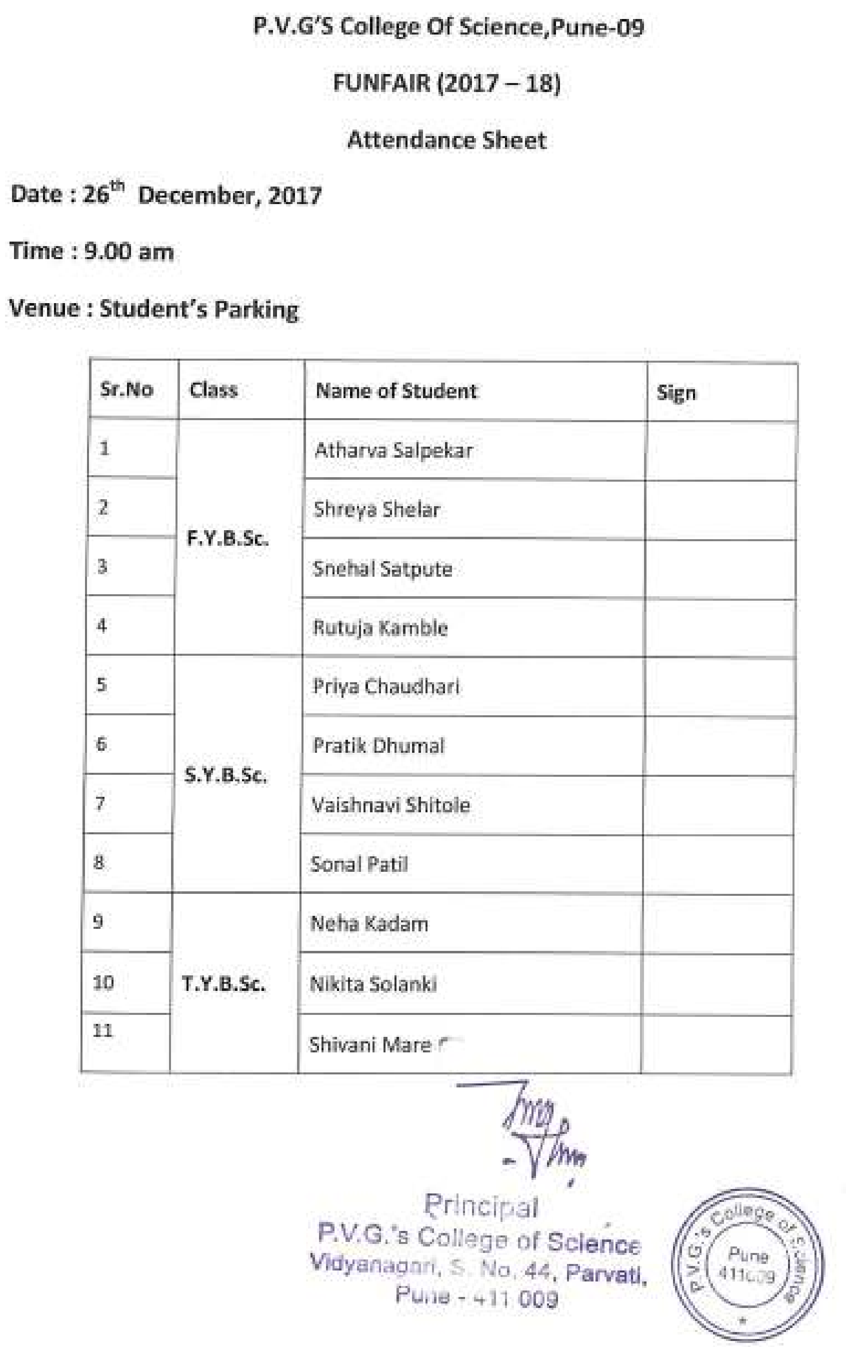
Pune - 411 009



P.V.G'S College Of Science,Pune-09

FUNFAIR (2017 – 18)

Attendance Sheet

Date : 26th December, 2017

Time : 9.00 am

Venue : Student's Parking

Sr.No	Class	Name of Student	Sign
1	F.Y.B.Sc.	Atharva Salpekar	
2		Shreya Shelar	
3		Snehal Satpute	
4		Rutuja Kamble	
5	S.Y.B.Sc.	Priya Chaudhari	
6		Pratik Dhumal	
7		Vaishnavi Shitole	
8		Sonal Patil	
9	T.Y.B.Sc.	Neha Kadam	
10		Nikita Solanki	
11		Shivani Mare	

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P.V.G'S college of Science,Pune-09

Funfair Competition Report

Event Name:Funfair Competition
Date: 26th December 2017
Event Coordinator: Mrs.Shilpa Pawale

Pre-execution:

- Student registration classwise.
- Discussion of Rounds.
- Notice displayed.
- Table Arrangements were made .

Post-execution:

- On the day 26th December 2017, all registered teams were gathered in Student's Parking at 8.40 a.m.
- Event started on 9.00 a.m.
- The event finished at 3.00 p.m.

Conclusion:

Response of student was very good .

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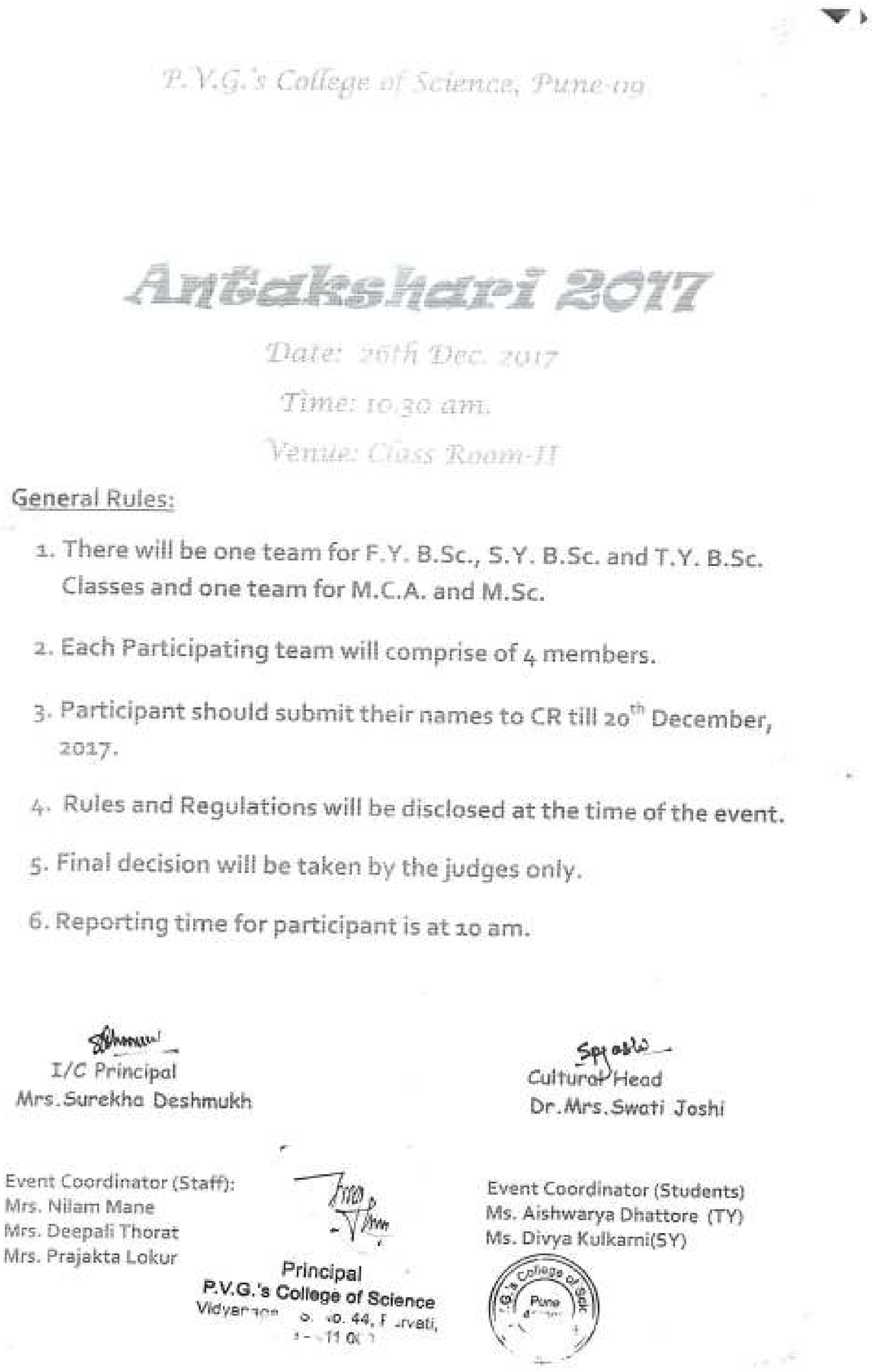

P.V.G.'s College of Science, Pune-09

Antakshari 2017

Date: 26th Dec. 2017

Time: 10.30 am.

Venue: Class Room-II

General Rules:

1. There will be one team for F.Y. B.Sc., S.Y. B.Sc. and T.Y. B.Sc. Classes and one team for M.C.A. and M.Sc.
2. Each Participating team will comprise of 4 members.
3. Participant should submit their names to CR till 20th December, 2017.
4. Rules and Regulations will be disclosed at the time of the event.
5. Final decision will be taken by the judges only.
6. Reporting time for participant is at 10 am.

I/C Principal
Mrs. Surekha Deshmukh

Cultural Head
Dr. Mrs. Swati Joshi

Event Coordinator (Staff):
Mrs. Nilam Mane
Mrs. Deepali Thorat
Mrs. Prajakta Lokur

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Vidyanagar, S. No. 44, Parvati,
Pune-411 009

Event Coordinator (Students)
Ms. Aishwarya Dhattore (TY)
Ms. Divya Kulkarni(SY)

P.V.G'S College Of Science,Pune-09

ANTAKSHARI (2017 – 18)

Attendance Sheet

Date : 26th December, 2017

Time : 10.30 am

Venue : Class Room-II

Sr.No	Class	Name of Student	Sign
1	F.Y.B.Sc.	Isha Wakdkar	IWakadkar
2		Prachi Hinge	PHinge
3		Shishir Kadam	Skadam
4	S.Y.B.Sc.	Meera Nagtilak	
5		Priya choudhari	Priya.
6		Athila Walimbe	Athila
7	T.Y.B.Sc.	Chaitanya Ambardekar	Ambardekar
8		Aditya Bhalerao	A. Bhalerao
9		Rahul Kokje	Rahul
10	F.Y.M.Sc.	Vaibhav Joshi	–
11		Hrushikesh Ambre	Ambre
12		Pallavi Chaudhari	Pallavi.C
13		Ketki Lohakare	Lohakare

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

Event Report

Name of the event: Antakshari

Date: 26th December,2017

Team Members: Ms.Nilam Mane

Ms.Deepali Thorat

Mrs.Prajakta Lokur

Pre-Execution:

- In cultural activity meeting Mrs.Swati Joshi madam was assigned responsibility of Antakshari to Ms.Nilam Mane, Ms.Deepali Thorat, Mrs.Prajakta Lokur..
- From student representative Ms.Aishwarya Dhattore and Ms.Divya Kulkarni was assigned for help.
- Antakshari timing was from 10.30 pm to 12.00 pm.
- We displayed notice regarding the game with rules, venue and respective in charge names.

Execution:

- On the day 26th December,2017, all registered teams were gathered in classroom 2 at 10.00a.m.
- Event started on 10.30 a.m.
- There were 16 participants from different classes.
- The event finished at 12.00 p.m.
- Name of winner's team and runner-up team are submitted to Prize Distribution Committee.

Conclusion:

- Response of student was very good.
- Participants enjoyed the event a lot.

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P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
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Winners Of Antakshari Team

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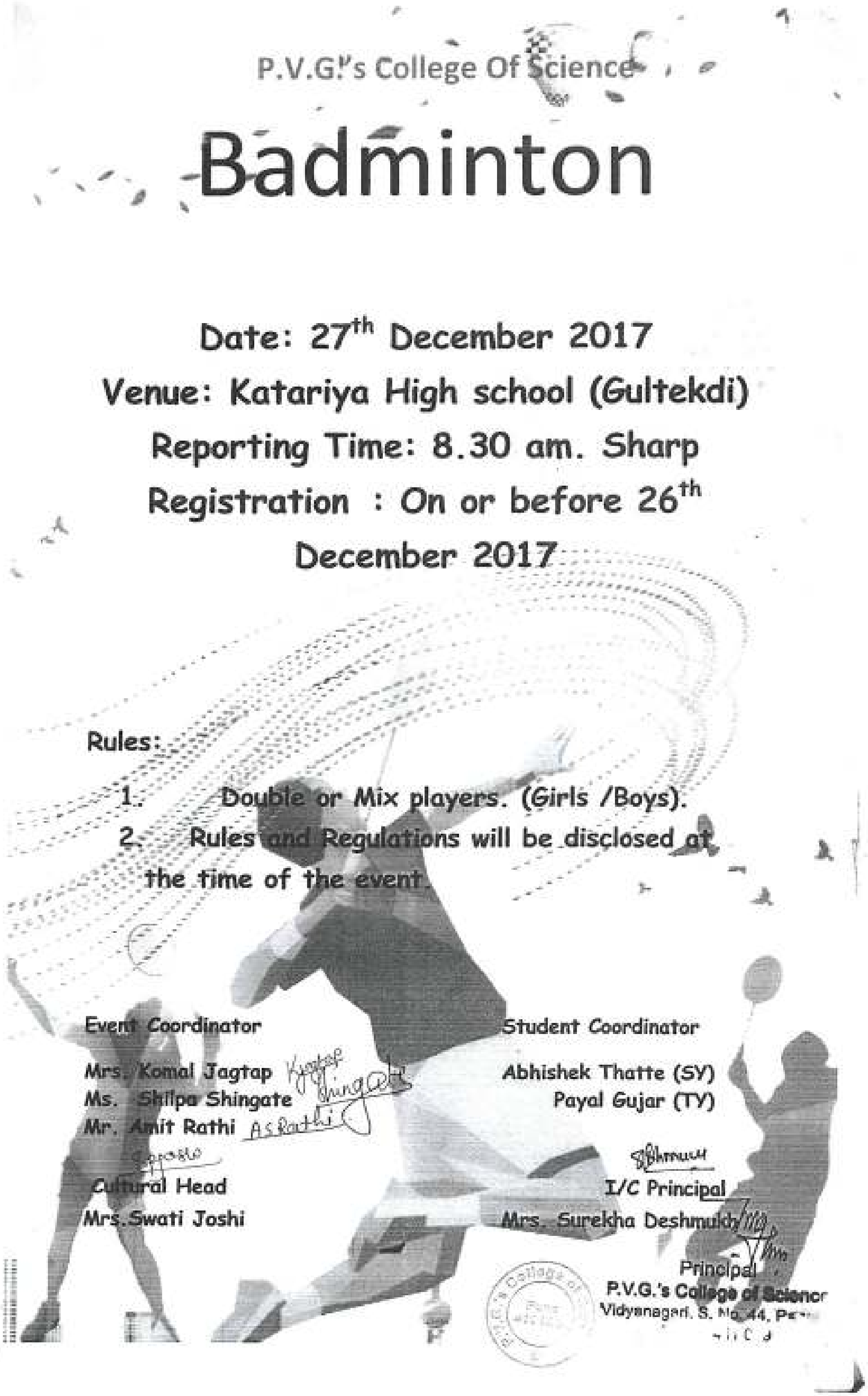


P.V.G.'s College Of Science

Badminton

Date: 27th December 2017

Venue: Katariya High school (Gultekdi)

Reporting Time: 8.30 am. Sharp

Registration : On or before 26th December 2017

Rules:

1. Double or Mix players. (Girls /Boys).
2. Rules and Regulations will be disclosed at the time of the event.

Event Coordinator

Mrs. Komal Jagtap KJagtap
Ms. Shilpa Shingate Shingate
Mr. Amit Rathi A S Rathi

Cultural Head

Mrs.Swati Joshi

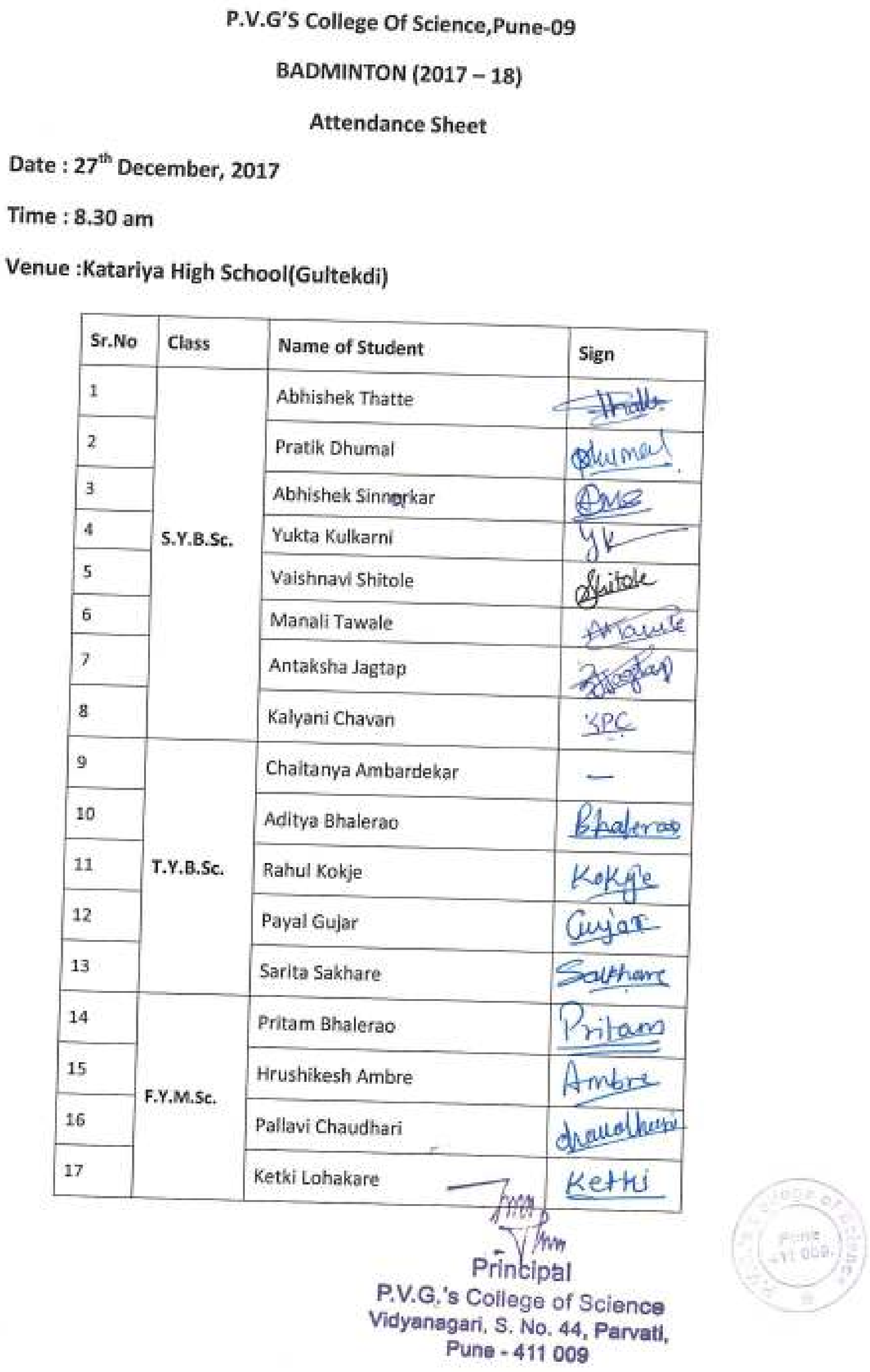
Student Coordinator

Abhishek Thatte (SY)
Payal Gujar (TY)

I/C Principal

Mrs. Surekha Deshmukh

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Pe



P.V.G'S College Of Science,Pune-09

BADMINTON (2017 – 18)

Attendance Sheet

Date : 27th December, 2017

Time : 8.30 am

Venue :Katariya High School(Gultekdi)

Sr.No	Class	Name of Student	Sign
1	S.Y.B.Sc.	Abhishek Thatte	Thatte
2		Pratik Dhumal	Dhumal
3		Abhishek Sinnarkar	
4		Yukta Kulkarni	yk
5		Vaishnavi Shitole	Shitole
6		Manali Tawale	Tawale
7		Antaksha Jagtap	Jagtap
8		Kalyani Chavan	KPC
9	T.Y.B.Sc.	Chaitanya Ambardekar	—
10		Aditya Bhalerao	Bhalerao
11		Rahul Kokje	Kokje
12		Payal Gujar	Gujar
13		Sarita Sakhare	Sakhare
14	F.Y.M.Sc.	Pritam Bhalerao	Pritam
15		Hrushikesh Ambre	Ambre
16		Pallavi Chaudhari	chaudhari
17		Ketki Lohakare	Ketki

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
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P.V.G'S college of Science,Pune-09

Badminton Competition Report

Event Name: Badminton Competition
Date: 27th December 2017
Team Members: 1. Ms.Komal Yadav
2.Ms.Shilpa Shingate

Pre-execution:

- Student registration classwise.
- Discussion of Rounds.
- Announcement of Rules.
- Notice displayed.
- Arrangements were made .

Post-execution:

- Total Two teams participated in this competition having students from F.Y.Bsc and S.Y.Bsc respectively.
- Total two matches were held under this competition and team S.Y.Bsc won both matches against team F.Y.Bsc.
- Sonal Patil from S.Y.Bsc was selected as Woman of the Match scoring maximum runs in both matches.

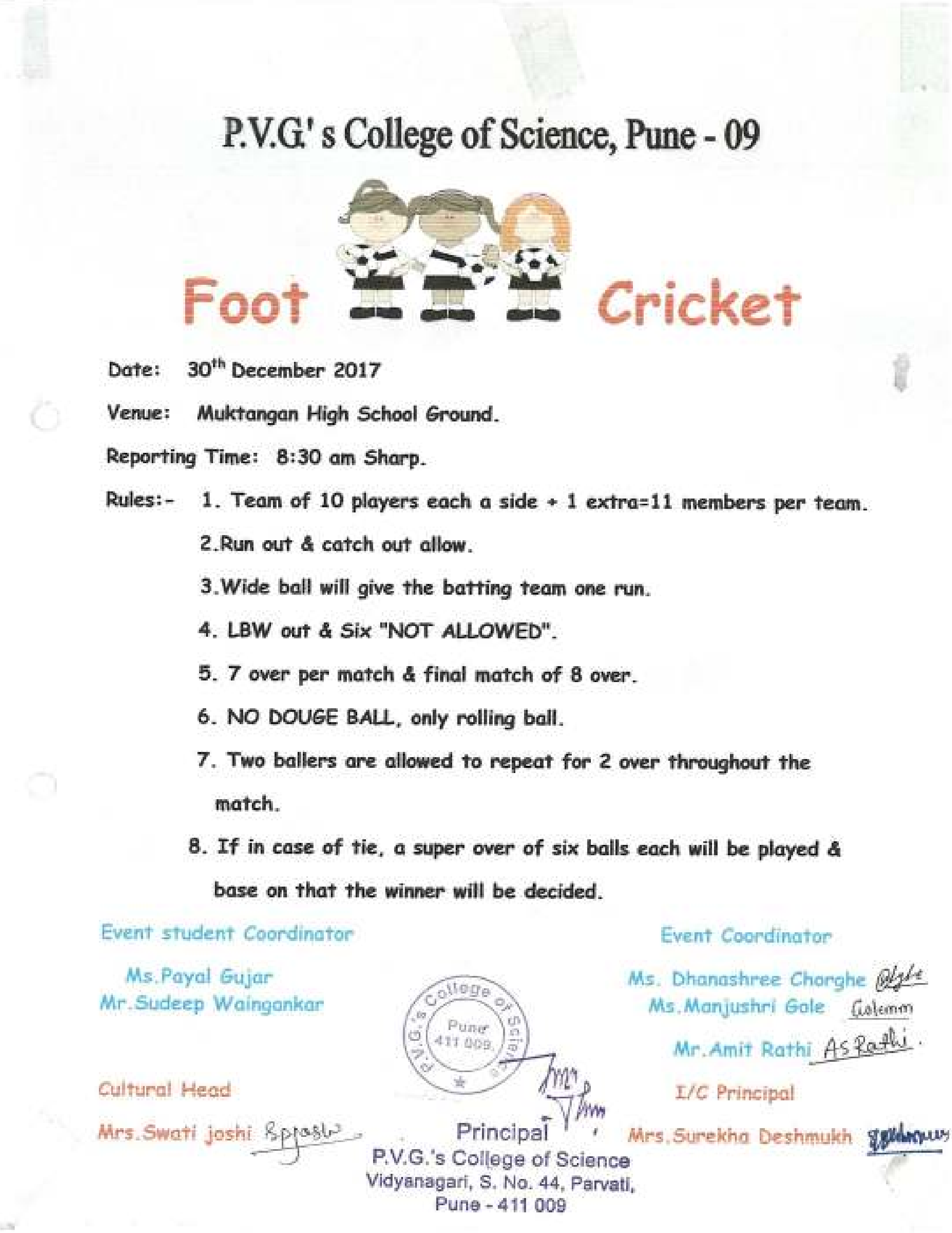
Conclusion:

These competition had good response from students and audience were cheerful.

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

Activity Photographs

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009



P.V.G' s College of Science, Pune - 09

Foot Cricket

Date: 30th December 2017

Venue: Muktangan High School Ground.

Reporting Time: 8:30 am Sharp.

Rules:-

1. Team of 10 players each a side + 1 extra=11 members per team.
2. Run out & catch out allow.
3. Wide ball will give the batting team one run.
4. LBW out & Six "NOT ALLOWED".
5. 7 over per match & final match of 8 over.
6. NO DOUGE BALL, only rolling ball.
7. Two ballers are allowed to repeat for 2 over throughout the match.
8. If in case of tie, a super over of six balls each will be played & base on that the winner will be decided.

Event student Coordinator
Ms.Payal Gujar
Mr.Sudeep Waingankar

Event Coordinator
Ms. Dhanashree Charghe
Ms.Manjushri Gale
Mr.Amit Rathi As Rathi.

Cultural Head
Mrs.Swati joshi

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

I/C Principal
Mrs.Surekha Deshmukh

P.V.G'S College Of Science,Pune-09

FOOT CRICKET (2017 – 18)

Attendance Sheet

Date : 30th December, 2017

Time : 8.30 am

Venue :Muktangan High School Ground

Sr.No	Class	Name of Student	Sign
1	F.Y.B.Sc.	Shivani Paradeshi	Shivani
2		Pooja Wanjale	Wanjale
3		Shamita Korade	Shamita
4		Shreya Shelar	
5		Isha Kulkarni	Isha
6		Snehal Satpute	
7	S.Y.B.Sc.	Yukta Kulkarni	YK
8		Vaishnvi Khopade	
9		Vaishnvi Shitole	Shitole
10		Reshma mohite	
11		Karanjakar Nikita	Nikita
12		Sonal Patil	
13		Kajal Londhe	Londhe
14		Akshta kalbhor	
15		Aishwarya Shilimkar	

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

P.V.G'S college of Science,Pune-09

Foot Cricket Competition Report

Event Name: Foot Cricket Competition
Date: 30th December 2017
Team Members: 1. Ms.Manjushri Gole
2.Ms.Dhanashree Choraghe

Pre-execution:

- Student registration classwise.
- Discussion of Rounds.
- Announcement of Rules.
- Notice displayed.
- Arrangements were made .

Post-execution:

- Total Two teams participated in this competition having students from F.Y.Bsc and S.Y.Bsc respectively.
- Total two matches were held under this competition and team S.Y.Bsc won both matches against team F.Y.Bsc.
- Sonal Patil from S.Y.Bsc was selected as Woman of the Match scoring maximum runs in both matches.

Conclusion:

These competition had good response from students and audience were cheerful.

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Winners Of Foot Cricket Team

Principal
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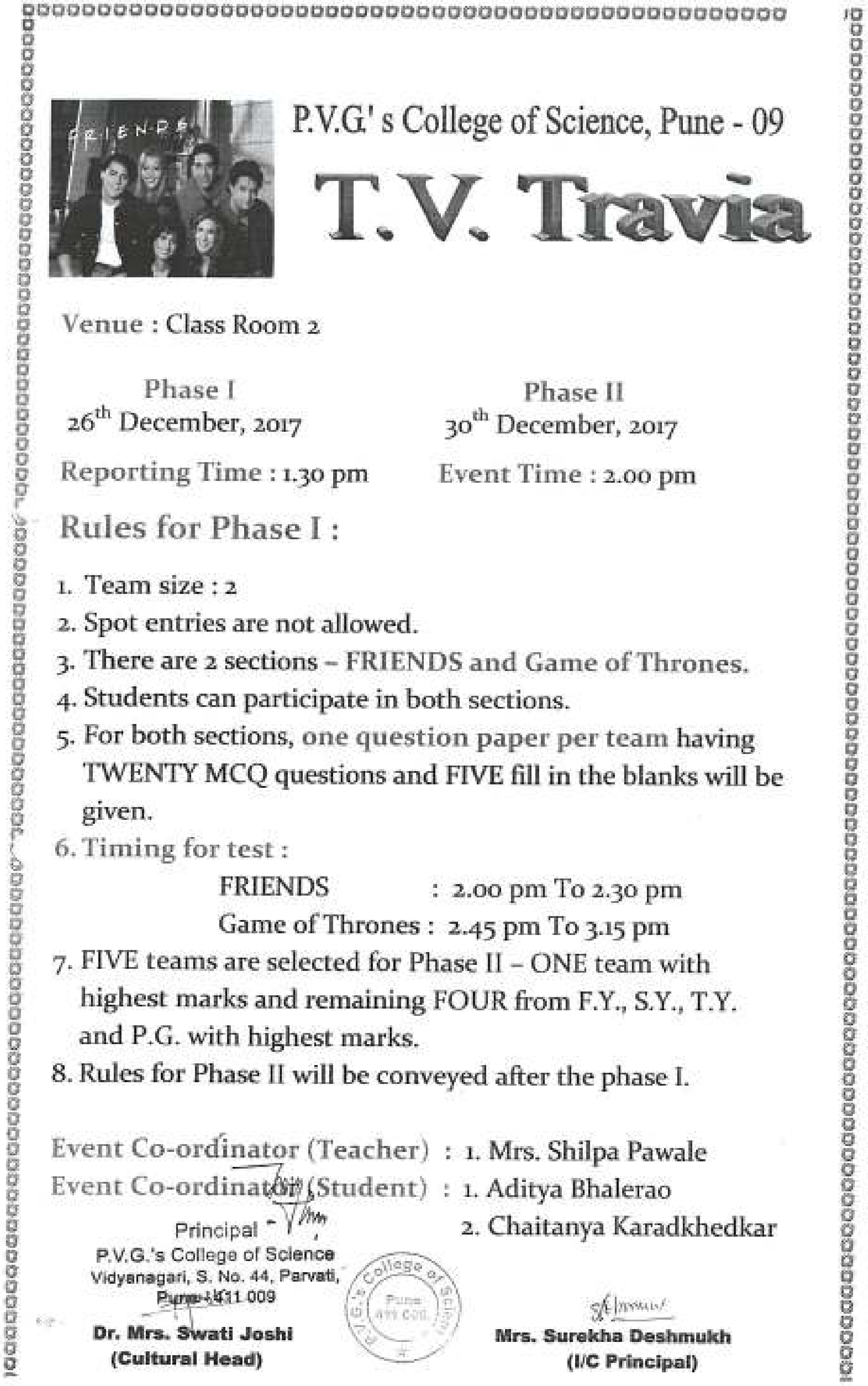
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009



P.V.G' s College of Science, Pune - 09

T.V. Travia

Venue : Class Room 2

Phase I
26th December, 2017

Phase II
30th December, 2017

Reporting Time : 1.30 pm

Event Time : 2.00 pm

Rules for Phase I :

1. Team size : 2
2. Spot entries are not allowed.
3. There are 2 sections – FRIENDS and Game of Thrones.
4. Students can participate in both sections.
5. For both sections, one question paper per team having TWENTY MCQ questions and FIVE fill in the blanks will be given.
6. Timing for test :
   FRIENDS : 2.00 pm To 2.30 pm
   Game of Thrones : 2.45 pm To 3.15 pm
7. FIVE teams are selected for Phase II – ONE team with highest marks and remaining FOUR from F.Y., S.Y., T.Y. and P.G. with highest marks.
8. Rules for Phase II will be conveyed after the phase I.

Event Co-ordinator (Teacher) : 1. Mrs. Shilpa Pawale
Event Co-ordinator (Student) : 1. Aditya Bhalerao
2. Chaitanya Karadkhedkar

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Vidyanagari, S. No. 44, Parvati,
Pune-411 009

Dr. Mrs. Swati Joshi
(Cultural Head)

Mrs. Surekha Deshmukh
(I/C Principal)

P.V.G'S College Of Science,Pune-09

T.V.TRAVIA(2017 – 18)

Attendance Sheet

Date : 26th December, 2017

Time : 1.30 pm

Venue : Class Room-II

Sr.No	Class	Name of Student	Sign
1	S.Y.B.Sc	Vaishnavi shitole	Shitole
2		Kalyani chavan	KPC
3		Vaishnavi khopde	Khopade
4		Manasi Mohite	mohite
5	T.Y.B.Sc.	Aditya Bhalerao	Bhalerao
6		Payal Agar	P.Agar
7		Rahul Kokje	Kokje
8		Komal Karkati	Komal.K
9	S.Y.M.Sc.	Kalyan Gadgil.	Gadgil
10		Hrishikesh Patwardhan	H.P
11		Shekhar Shinde	Shinde
12		Aishwarya Dande	Dande

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

P.V.G'S college of Science,Pune-09

TV TRIVIA Report

Event Name: TV TRIVIA
Date: 26th December, 2017
Venue: Classroom-II
Event Coordinator: Mrs. Shilpa Pawale

Pre-execution:

- Student registration classwise.
- Discussion of Rounds.
- Announcement of Rules.

Post-execution:

- Total 12 candidates participated in these competition .
- Total four rounds were held for each of competition consisting round1,round2,semi-final and final.
- Team MSC(CS) came as winner in Competition .

Conclusion:

These competition had good response from students

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Winners Of TV Trivia Team

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
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Miravnuk(2017-2018)

Cultural Event(2017-2018)

Principal
P.V.G.'s College of Science
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Cultural Event(2017-2018)

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
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Prize Distribution Ceremony

Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

Students are performing in Cultural Events in College (2017-18)

Students are performing in Cultural Events and receiving Prize for excellence in College:

Output of Our Cultural and Sport Activities:

Miss. Shreya Adkar , student of F.Y.B.Sc. is the part of team who was Runner-up of West Zone Inter University Kho-Kho Women Tournament 2018-19 :

WELCOMES
WEST ZONE INTER - UNIVERSITY
Kho-Kho (Women) TOURNAMENT

Miss. Aishwarya Patil, alumni of our college, performing in well known cultural program "Lokarang Maharashtrache":

लोकरंग महाराष्ट्राचे

Miss. Arpita Munot, Alumni of our college, was the part of team who was winner of the "Amdar Chashak -2015":

आमदार चषक-२०१५
२६ वी राज्य तलवारबाजी पुरुष व
महिला राज्य अजिंक्यपद स्पर्धा

Miss. Madhura Pasalkar, our GS, Performing Bharat Natyam in Social cultural program like Nrutyaranga ,Nritya-swar-Maitra etc:

Mr.Nikhil Mujumdar, Alumni of our college, who got "Best Actor","Best Director" and "Best Drama Award "in Ma. Ta. Sanman - 2019 and Zee Gaurav -2019:

प्रस्तुत
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सन्मान
- २०१९ -
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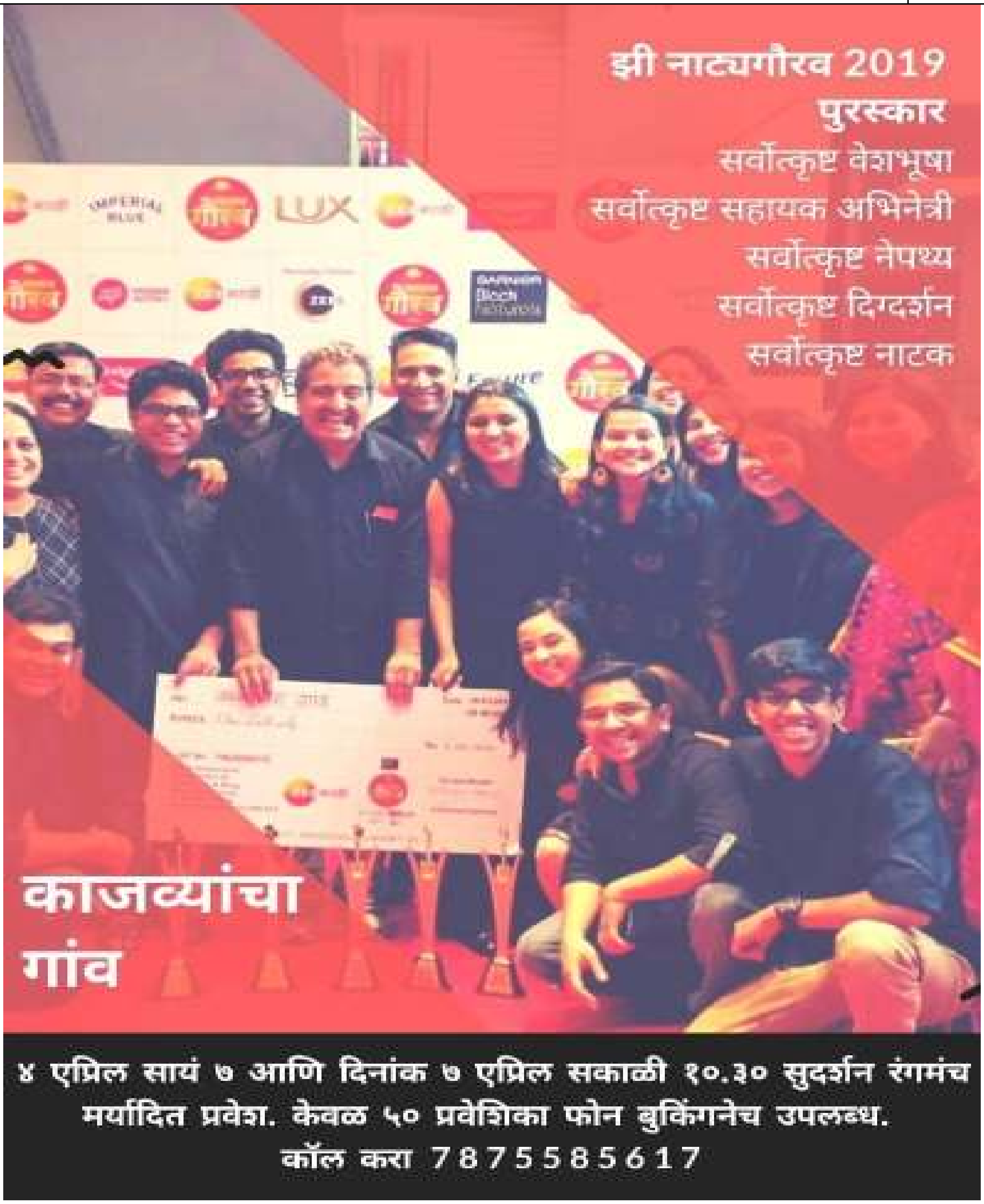

झी नाट्यगौरव 2019
पुरस्कार
सर्वोत्कृष्ट वेशभूषा
सर्वोत्कृष्ट सहायक अभिनेत्री
सर्वोत्कृष्ट नेपथ्य
सर्वोत्कृष्ट दिग्दर्शन
सर्वोत्कृष्ट नाटक

काजव्यांचा
गांव

४ एप्रिल सायं ७ आणि दिनांक ७ एप्रिल सकाळी १०.३० सुदर्शन रंगमंच
मर्यादित प्रवेश. केवळ ५० प्रवेशिका फोन बुकिंगनेच उपलब्ध.
कॉल करा 7875585617

Mr. Aniket Dhariya , Our Alumni is Entrepreneur :

VYAS SYSTEMS
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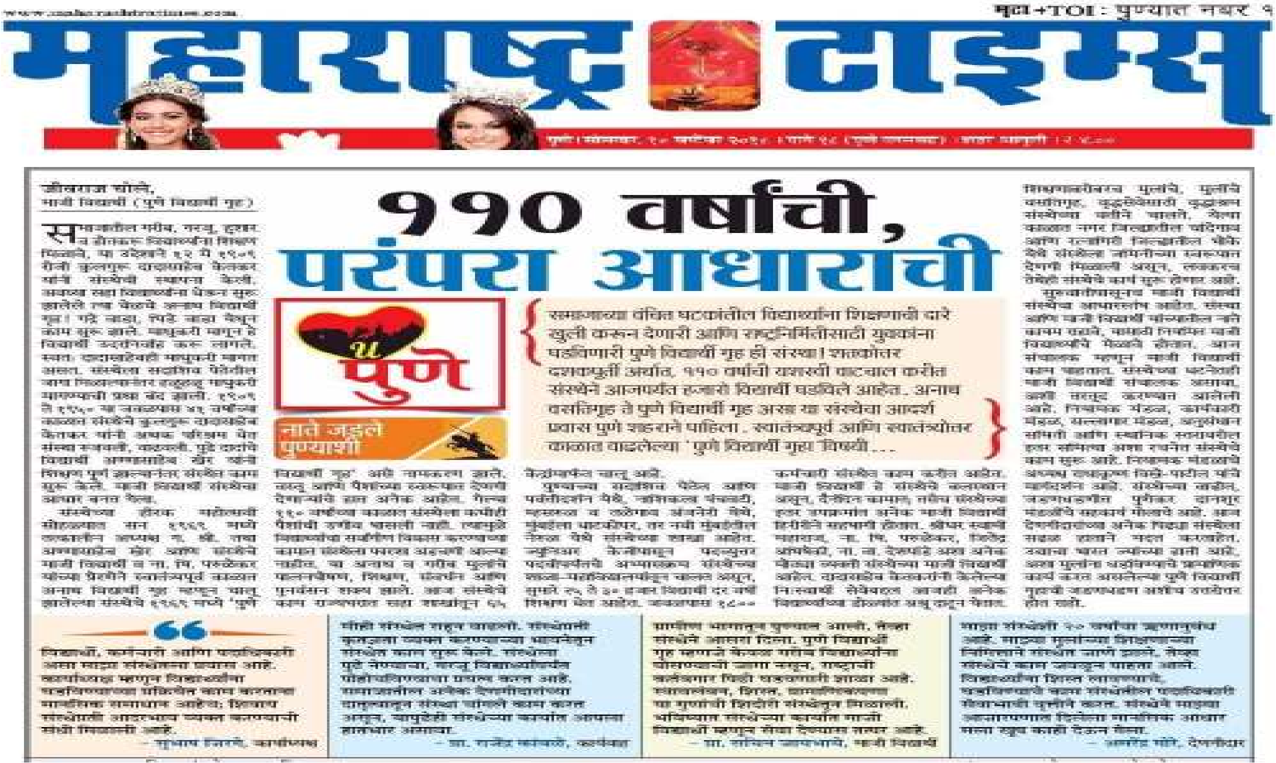
Creating Solutions for
Next Gen Enterprises
Ensured Stability
Cost-effectiveness
Ensured Security
Microsoft SharePoint
Mobile Application Development
STEMS

Mr. Gaurav Khuntale, Our Alumni, He is Entrepreneur: VOIDSTAR INDIA SOLUTIONS LLP:

Jivraj Chole ,Our Alumni, Chef editor ,also publish "savwad " Magazine :



महाराष्ट्र टाइम्स

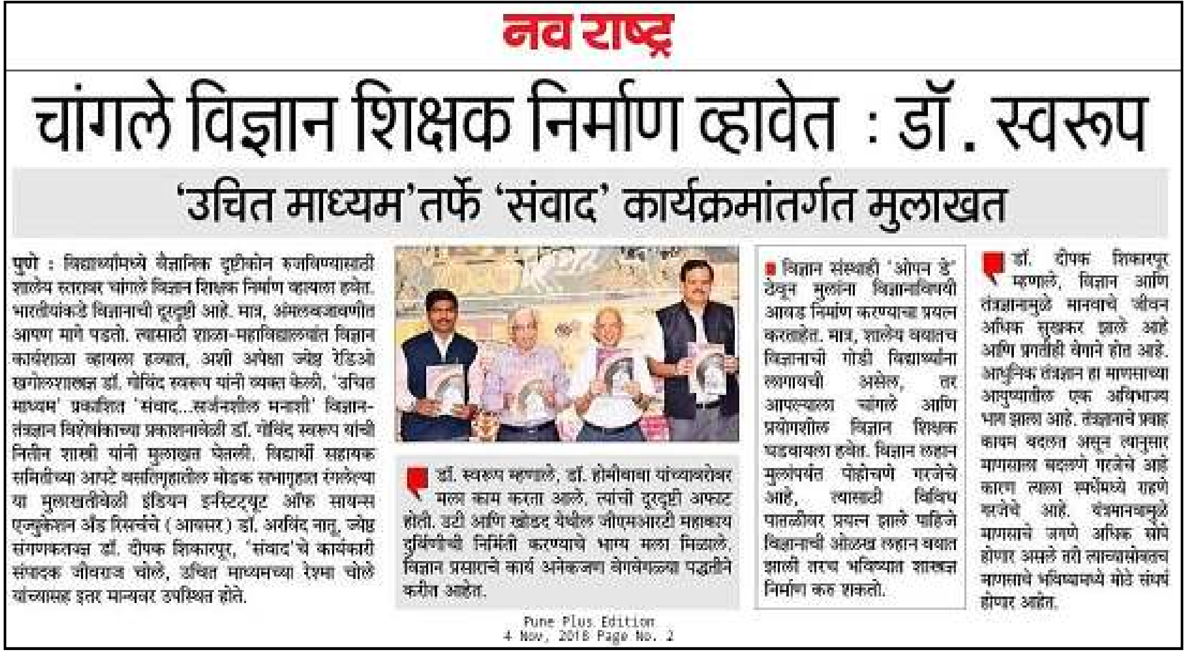
जीवराज चोले,
माजी विद्यार्थी (पुणे विद्यार्थी गृह)

११० वर्षांची, परंपरा आधाराची

u पुणे

नाते जडले पुण्याशी

समाजाच्या वंचित घटकांतील विद्यार्थ्यांना शिक्षणाची दारे खुली करून देणारी आणि राष्ट्रनिर्मितीसाठी युवकांना घडविणारी पुणे विद्यार्थी गृह ही संस्था! शतकोत्तर दशकपूर्ती अर्थात, ११० वर्षांची यशस्वी घटचाल करीत संस्थेने आजपर्यंत हजारो विद्यार्थी घडविले आहेत. अनाथ वसतिगृह ते पुणे विद्यार्थी गृह असा या संस्थेचा आदर्श प्रवास पुणे शहराने पाहिला. स्वातंत्र्यपूर्व आणि स्वातंत्र्योत्तर काळात वाढलेल्या 'पुणे विद्यार्थी गृहा' विषयी...



नवराष्ट्र

चांगले विज्ञान शिक्षक निर्माण व्हावेत : डॉ. स्वरूप

'उचित माध्यम'तर्फे 'संवाद' कार्यक्रमांतर्गत मुलाखत

पुणे : विद्यार्थ्यांमध्ये वैज्ञानिक दृष्टीकोन रुजविण्यासाठी शालेय स्तरावर चांगले विज्ञान शिक्षक निर्माण व्हायला हवेत. भारतीयांकडे विज्ञानाची दूरदृष्टी आहे. मात्र, अंमलबजावणीत आपण मागे पडतो. त्यासाठी शाळा-महाविद्यालयांत विज्ञान कार्यशाळा व्हायला हव्यात, अशी अपेक्षा ज्येष्ठ रेडिओ खगोलशास्त्रज्ञ डॉ. गोविंद स्वरूप यांनी व्यक्त केली. 'उचित माध्यम' प्रकाशित 'संवाद...सर्जनशील मनाशी' विज्ञान-तंत्रज्ञान विशेषांकाच्या प्रकाशनावेळी डॉ. गोविंद स्वरूप यांची नितीन शास्त्री यांनी मुलाखत घेतली. विद्यार्थी सहायक समितीच्या आपटे वसतिगृहातील मोडक सभागृहात रंगलेल्या या मुलाखतीवेळी इंडियन इन्स्टिट्यूट ऑफ सायन्स एज्युकेशन अँड रिसर्चचे (आयसर) डॉ. अरविंद नातू, ज्येष्ठ संगणकतज्ज्ञ डॉ. दीपक शिकारपूर, 'संवाद'चे कार्यकारी संपादक जीवराज चोले, उचित माध्यमच्या रेश्मा चोले यांच्यासह इतर मान्यवर उपस्थित होते.

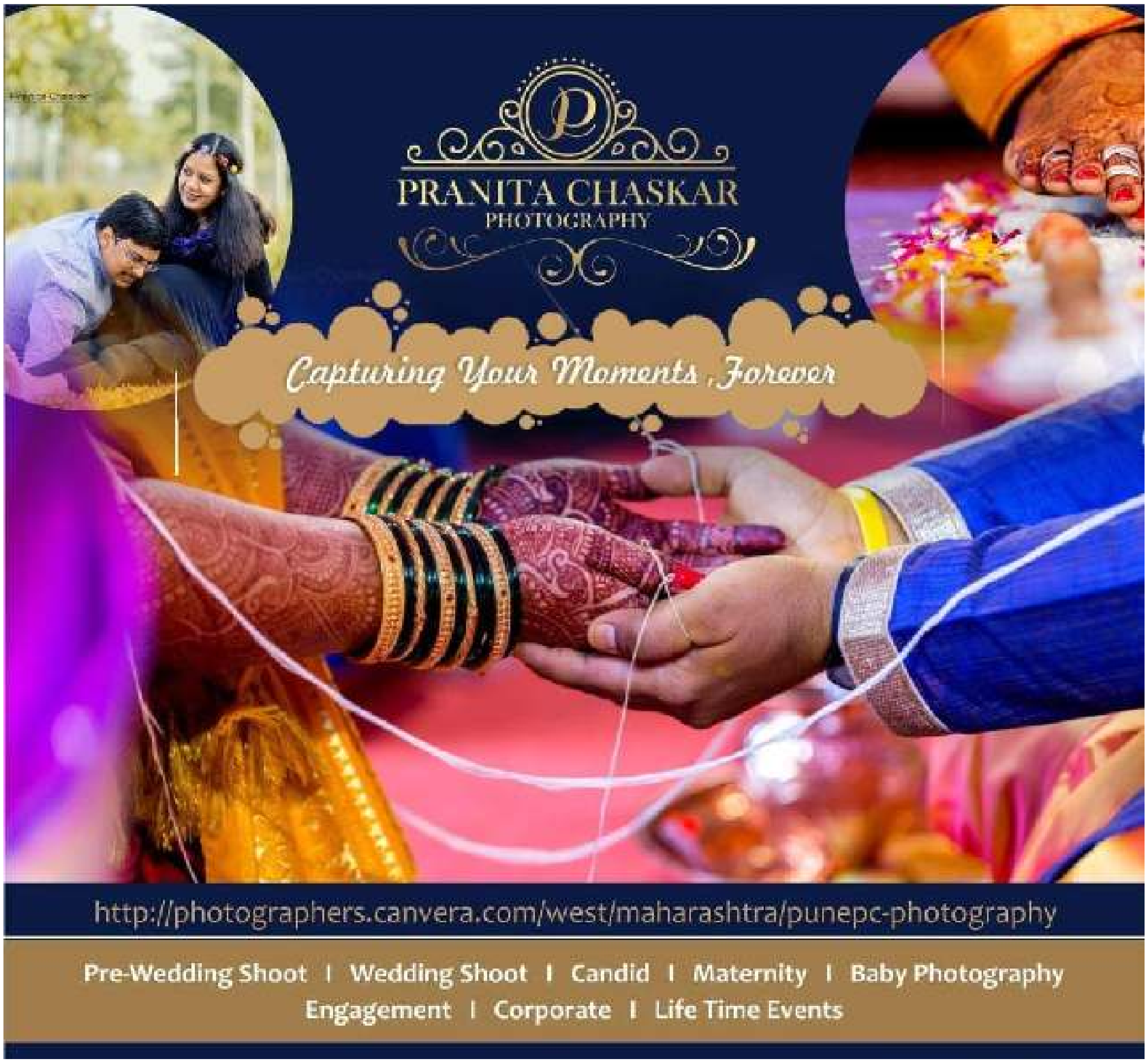
डॉ. स्वरूप म्हणाले, डॉ. होमीबाबा यांच्यासोबत मला काम करता आले, त्यांची दूरदृष्टी अफाट होती. ऊटी आणि खोडद येथील जीएमआरटी महाकाय दुर्बिणीची निर्मिती करण्याचे भाग्य मला मिळाले. विज्ञान प्रसाराचे कार्य अनेकजण वेगवेगळ्या पद्धतीने करीत आहेत.

विज्ञान संस्थाही 'ओपन डे' ठेवून मुलांना विज्ञानाविषयी आवड निर्माण करण्याचा प्रयत्न करताहेत. मात्र, शालेय वयातच विज्ञानाची गोडी विद्यार्थ्यांना लागायची असेल, तर आपल्याला चांगले आणि प्रयोगशील विज्ञान शिक्षक घडवायला हवेत. विज्ञान लहान मुलांपर्यंत पोहोचणे गरजेचे आहे, त्यासाठी विविध पातळीवर प्रयत्न झाले पाहिजे. विज्ञानाची ओळख लहान वयात झाली तरच भविष्यात शास्त्रज्ञ निर्माण करू शकतो.

डॉ. दीपक शिकारपूर म्हणाले, विज्ञान आणि तंत्रज्ञानामुळे मानवाचे जीवन अधिक सुखकर झाले आहे आणि प्रगतीही वेगाने होत आहे. आधुनिक तंत्रज्ञान हा माणसाच्या आयुष्यातील एक अविभाज्य भाग झाला आहे. तंत्रज्ञानाचे प्रवाह कायम बदलत असून त्यानुसार माणसाला बदलणे गरजेचे आहे कारण त्याला स्पर्धेमध्ये राहणे गरजेचे आहे. यंत्रमानवामुळे माणसाचे जगणे अधिक सोपे होणार असले तरी त्याच्यासोबतच माणसाचे भविष्यामध्ये मोठे संघर्ष होणार आहेत.

Pune Plus Edition
4 Nov, 2018 Page No. 2

Miss. Pranita Chaskar, our alumni, she is now professional photographer:


P
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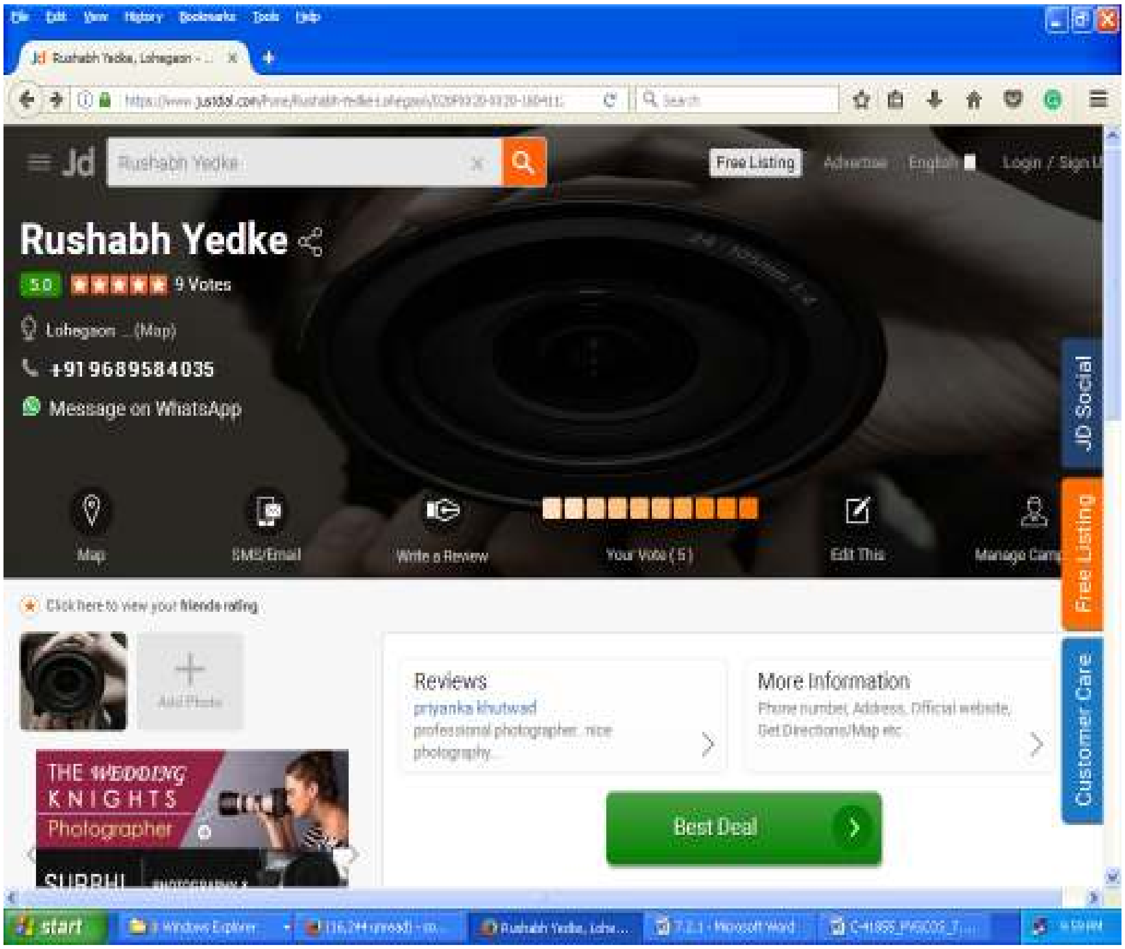
http://photographers.canvera.com/west/maharashtra/punepc-photography

Pre-Wedding Shoot | Wedding Shoot | Candid | Maternity | Baby Photography
Engagement | Corporate | Life Time Events

Mr. Rushabh Yedke, our alumni, He is now professional photographer:



Rushabh Yedke

5.0 ★★★★★ 9 Votes

Lohegaon ...(Map)

+91 9689584035

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Reviews
priyanka khutwad
professional photographer.. nice photography...

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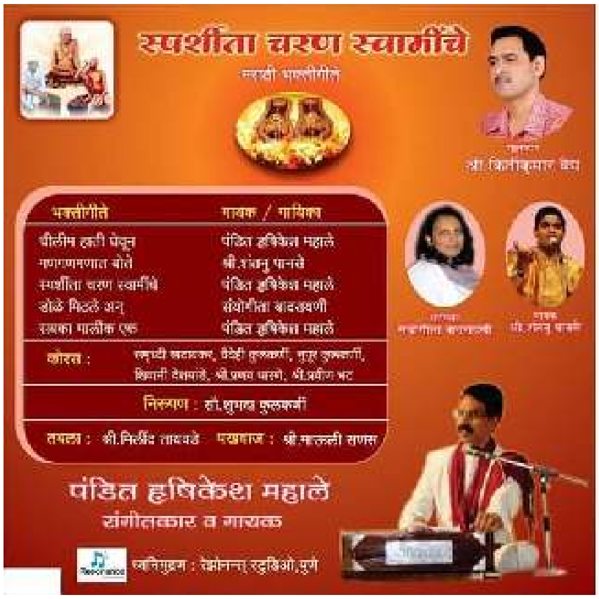
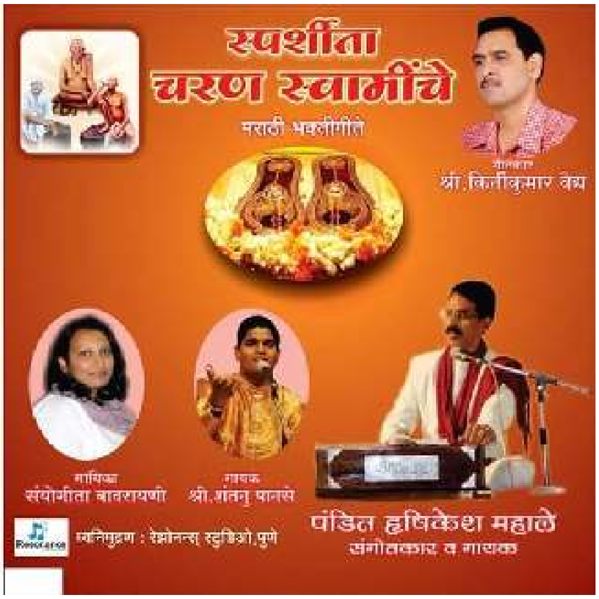
Mr. Shantanu Panse, Our Alumni, He is now Singer and sings in many musical shows:


स्पर्शीता चरण स्वामींचे
मराठी भक्तीगीते
भक्तीगीते
गायक / गायिका
निर्माण
पंडित हृषिकेश महाले
संगीतकार व गायक
ध्वनिमुद्रण : रेझोनन्स स्टुडिओ,पुणे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चरण स्वामींचे
मराठी भक्तीगीते
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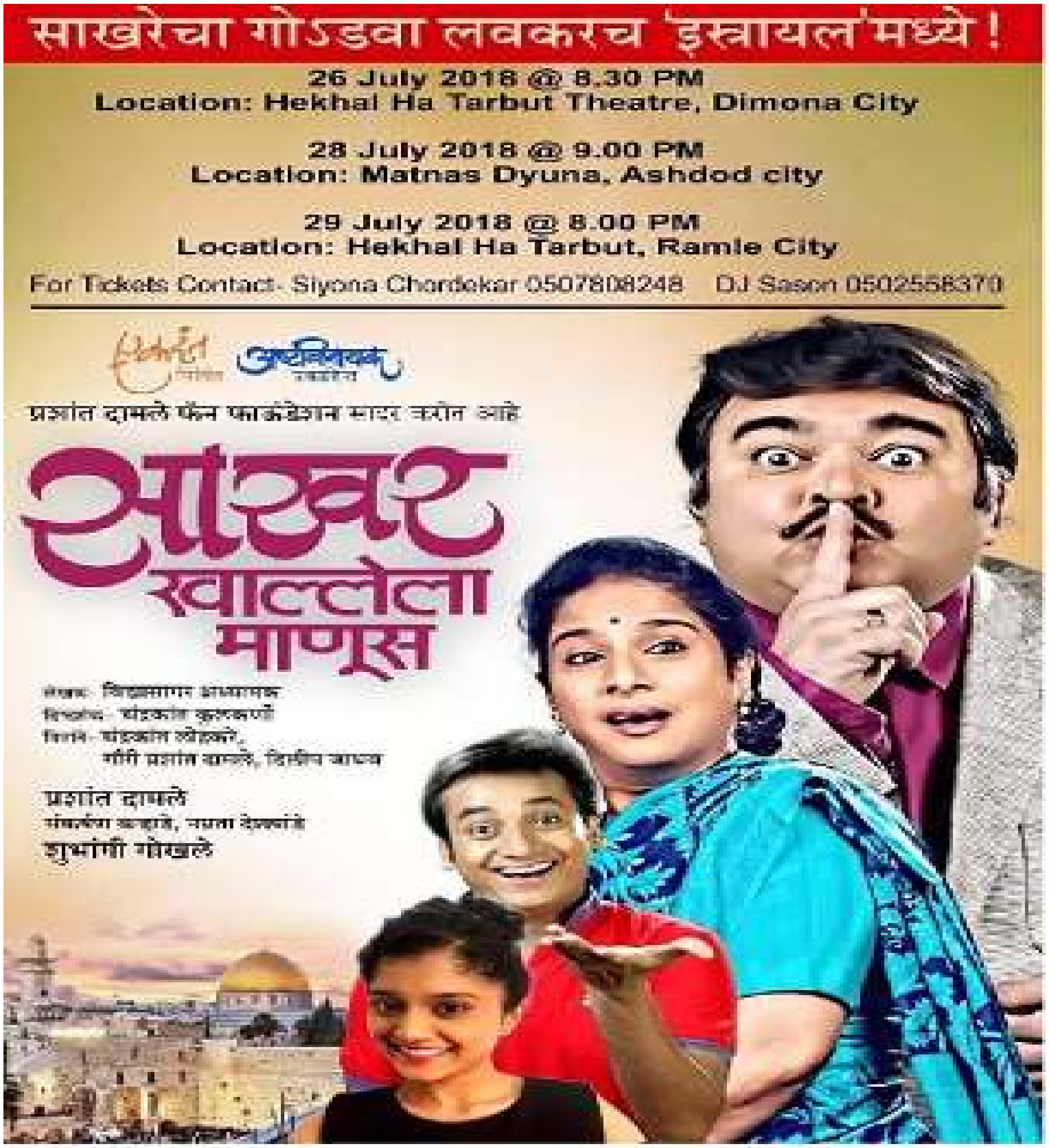
गायिका
गायक
श्री.शंतनु पानसे
पंडित हृषिकेश महाले
संगीतकार व गायक
ध्वनिमुद्रण : रेझोनन्स स्टुडिओ,पुणे

Miss. Namrata Deshpande, Our Alumni, she is actor and acting in Drama and many more:



साखरेचा गोऽडवा लवकरच 'इस्रायल'मध्ये !

26 July 2018 @ 8.30 PM
Location: Hekhal Ha Tarbut Theatre, Dimona City

28 July 2018 @ 9.00 PM
Location: Matnas Dyuna, Ashdod city

29 July 2018 @ 8.00 PM
Location: Hekhal Ha Tarbut, Ramle City

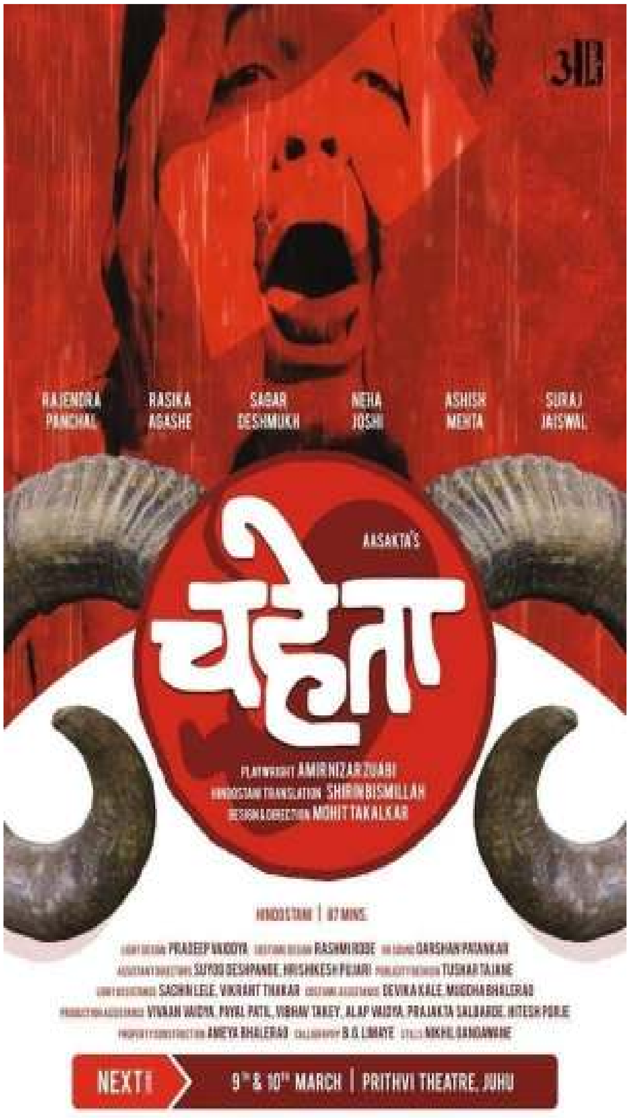
For Tickets Contact- Siyona Chordekar 0507808248 DJ Sason 0502558370

प्रशांत दामले फॅन फाऊंडेशन सादर करीत आहे

साखर खाल्लेला माणूस

प्रशांत दामले
संकर्षण कऱ्हाडे, नम्रता देशपांडे
शुभांगी गोखले

Mr. Hrishikesh Pujari, Our alumni, He is now Assistant director of "AASAKTA's Chaheta" and Actor in "AASAKTA's F-1/105" and many more :


3B
RAJENDRA PANCHAL
RASIKA AGASHE
SAGAR DESHMUKH
NEHA JOSHI
ASHISH MEHTA
SURAJ JAISWAL
AASAKTA'S
चहेता
PLAYWRIGHT AMIR NIZAR ZUABI
HINDOSTANI TRANSLATION SHIRIN BISMILLAH
DESIGN & DIRECTION MOHIT TAKALKAR
HINDOSTANI | 87 MINS
PRADEEP VAIDYA RASHMI RODE DARSHAN PATANKAR
ASSISTANT DIRECTORS SUYOG DESHPANDE, HRISHIKESH PUJARI TUSHAR TAJANE
SACHIN LELE, VIKRANT THAKAR DEVIKA KALE, MUGDHA BHALERAO
VIVAAN VAIDYA, PAYAL PATIL, VIBHAV TAKEY, ALAP VAIDYA, PRAJAKTA SALBARDE, HITESH PORJE
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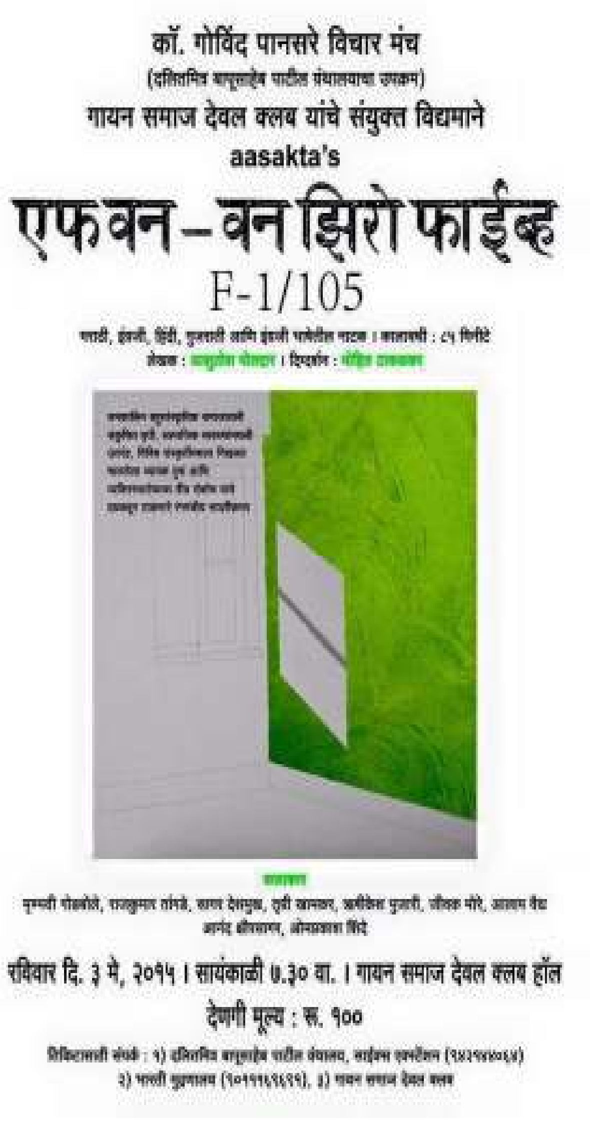
कॉ. गोविंद पानसरे विचार मंच
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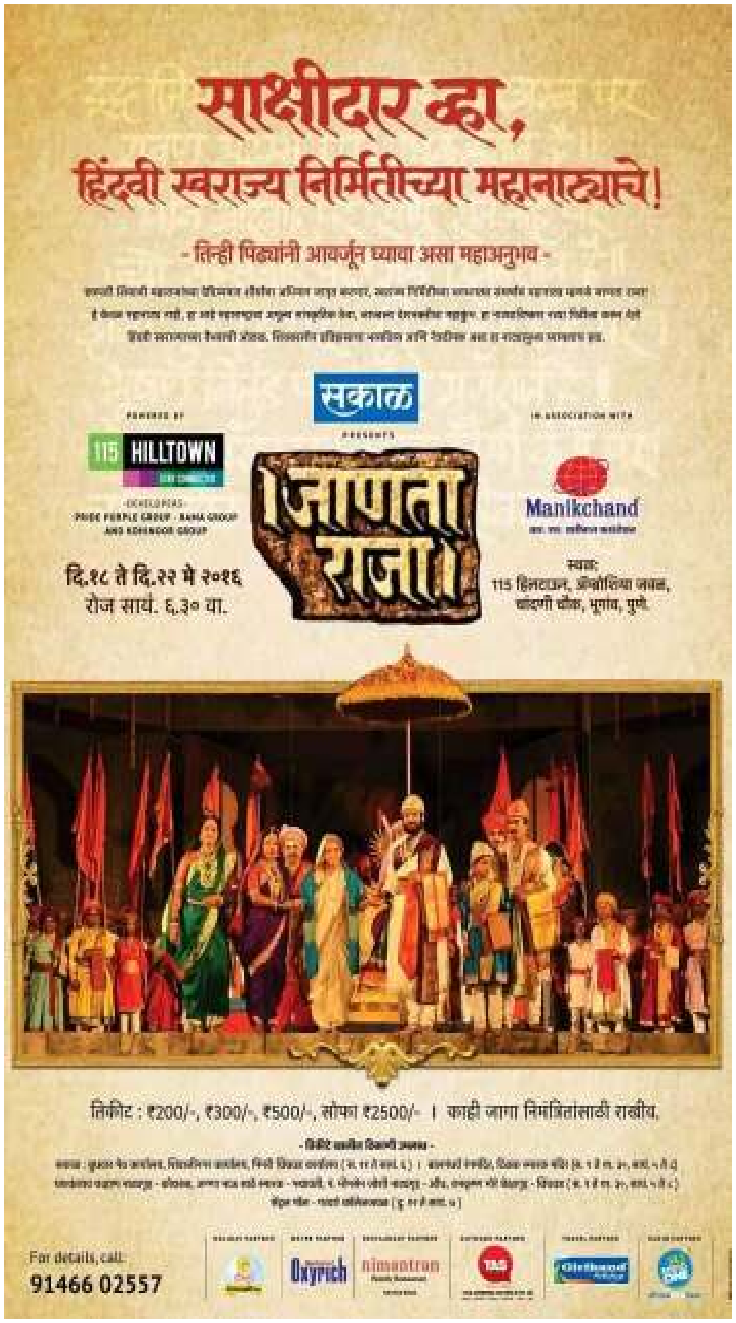
aasakta's
एफ वन – वन झिरो फाईव्ह
F-1/105
रविवार दि. ३ मे, २०१५ । सायंकाळी ७.३० वा. । गायन समाज देवल क्लब हॉल
देणगी मूल्य : रू. १००

Mr. Omkar Joshi, Our Alumni, He is actor, acting in Most Popular show "JANTA RAJA",and many more:



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