



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

## 2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode:



### Pune Vidyarthi Griha's COLLEGE OF SCIENCE

Affiliated to Savitribai Phule Pune University: Identification No PU/PN/SC/157/2001  
S.No.44, Vidyanagari, Parvati, Pune 411009

Telephone: (020) 2422 1484 / 2422 7484

Website: www.pvocos.ac.in

Date: 13/05/2022

#### NOTICE

#### (For students)

According to revised Circular from Savitribai Phule Pune University, the students of all classes of B.Sc. (CS), M.Sc. (CS) and M.Sc. (CA) are informed that our college is going to conduct Internal Theory Examination & External Practical Examination of Second Half of Academic Year 2021-22 during 31/05/2022 to 09/06/2022, as per following schedule:

Class	Internal Theory Exam Dates	External Practical Exam Dates
F.Y.B.Sc.(CS)	31/05/2022 to 03/06/2022	06/06/2022 to 10/06/2022
S.Y.B.Sc.(CS)	06/06/2022 to 09/06/2022	31/05/2022 to 03/06/2022
T.Y.B.Sc.(CS)	31/05/2022 to 03/06/2022	06/06/2022 to 09/06/2022
F.Y.M.Sc.(CS)	Subject teachers will announce the dates & mode of evaluation in the class.	28/05/2022 to 29/05/2022
F.Y.M.Sc.(CA)		28/05/2022 to 29/05/2022

- 1) Detailed Notice regarding Theory Internal Exam will be displayed in the next week.
- 2) Refer to Class-wise Detailed Practical Examination Time Table displayed on College Notice Board.

*RAJOSW*  
College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.

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



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22



## Pune Vidyarthi Griha's COLLEGE OF SCIENCE

Affiliated to Savitribai Phule Pune University: Identification No PU/PN/SC/157/2001

S.No.44, Vidyanagari, Parvati, Pune 411009

Telephone: (020) 2422 1484 / 2422 7484

Website: [www.pvocos.ac.in](http://www.pvocos.ac.in)


Date: 17/05/2022


### Notice – Regarding Internal Theory Examination

According to revised Circular from Savitribai Phule Pune University, our college is going to conduct Internal Theory Examination & External Practical Examination of Second Half of Academic Year 2021-22 during 31/05/2022 to 09/06/2022, as per following schedule:

Class	Internal Theory Exam Dates	External Practical Exam Dates
F.Y.B.Sc.(CS)	31/05/2022 to 03/06/2022	06/06/2022 to 10/06/2022
S.Y.B.Sc.(CS)	06/06/2022 to 09/06/2022	31/05/2022 to 03/06/2022
T.Y.B.Sc.(CS)	31/05/2022 to 03/06/2022	06/06/2022 to 09/06/2022
F.Y.M.Sc.(CS)	Subject teachers will announce the dates & mode of evaluation in the class.	28/05/2022 to 29/05/2022
F.Y.M.Sc.(CA)		28/05/2022 to 29/05/2022

- The Internal Theory Examination for all classes of B.Sc. (Computer Science) is to be conducted for 15 marks.
- The Question paper should include 2 sections as follows:
  - Section I (MCQ worth 7 marks) and
  - Section II (4 questions of 1 mark each and 2 questions of 2 marks each=total 8 marks)
- The Question Paper **must be framed** from the Question Bank only.
- The subject teachers should mail the soft copy of Question bank to Class Teacher and CEO and share the same with students on class WhatsApp group, at least 10 days prior to Internal Theory Examination.
- The format of question paper will be made available to all teachers on or before 23/05/2022. Accordingly, the teachers have to set the Internal Exam Question Paper and get the multiple copies of the same.

  
College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.

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

P.T.O.



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

## P.V.G.'s College of Science, Pune SPPU Practical Examination, Second Half of Academic Year 2021-22

Class : F.Y.B.Sc.(Computer Science)  
Semester : II

Max. Marks : 35  
Duration : 3 hours

Subject	Time	Venue	6/6/2022	7/6/2022	8/6/2022	9/6/2022	10/6/2022
CS-123 : Practical Course on Advanced "C" & rDBMS	10.00 am to 1.00 pm	Lab I	X	X	X	B I, II	B III, IV, V
	2.00 pm to 5.00 pm		X	X	B VII, VIII	B VI, IX, X	
ELC-123 : Practical Course IN Electronics	10.00 am to 1.00 pm	Electronics Lab	B III	B V	B VII	B IX	B I
	2.00 pm to 5.00 pm		B IV	B VI	B VIII	B X	B II
MTC-123 : Practical Course in Mathematics	10.00 am to 1.00 pm	Class Room 2	B V, B VI, B VII	B VIII, B IX, B X	B I, B II	B III, B IV	X
CSST-123 : Practical Course in Statistics	10.00 am to 1.00 pm	Class Room: 1	B VIII, B IX, B X	B I, B II, B VII	B III, B IV	B V, B VI	X

Note:

- Remember, this is SPPU practical exam conducted at college level. Re-exam of absent students will not be conducted under any circumstances. Students remaining absent for this exam will have to appear in the next Exam Session.
- Rechecking / Revaluation facility is not available for practical examination, as per SPPU norms.
- B I ( Roll No.s FB001 - FB016) - B II ( Roll No.s FB017 - FB032) - B III ( Roll No.s FB033 - FB048) - B IV ( Roll No.s FB049 - FB064) - B V ( Roll No.s FB065 - FB080) - B VI ( Roll No.s FB081 - FB096) - B VII ( Roll No.s FB097 - FB112) - B VIII ( Roll No.s FB113 - FB128) - B IX ( Roll No.s FB129 - FB144) - B X ( Roll No.s FB145 - FB159)
- Students must remain present 15 min. before the scheduled time of the exam.

*Principal*

College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.

Principal  
P.V.G.'s College of Science  
Vidyanagari, S. 44, Parvati,  
Pune -411 009



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

## P.V.G.'s College of Science, Pune SPPU Practical Examination, Second Half of Academic Year 2021-22


Class : S.Y.B.Sc.(Computer Science)  
Semester : IV

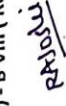
Max. Marks : 35  
Duration : 3 hours

Subject	Time	Venue	31/5/2022	1/6/2022	2/6/2022	3/6/2022	4/6/2022
CS-243 : Data Structures Practical	10.00 am to 1.00 pm	Lab I	B I	B III	B V	B VII	X
	2.00 pm to 5.00 pm		B II	B IV	B VI	B VIII	
ELC-243 : Practical Course IN Electronics	10.00 am to 1.00 pm	Electronics Lab	X	B I	B III	B V	B VII
	2.00 pm to 5.00 pm			B II	B IV	B VI	B VIII
MT-243 : Practical Course in Mathematics	10.00 am to 1.00 pm	Lab II	X	B V	B VII	B I	B III
	2.00 pm to 5.00 pm			B VI	B VIII	B II	B IV

**Note:**

- Remember, this is SPPU practical exam conducted at college level. Re-exam of absent students will not be conducted under any circumstances. Students remaining absent for this exam will have to appear in the next Exam Session.
- Rechecking / Reevaluation facility is not available for practical examination, as per SPPU norms.
- B I ( Roll No.s SB001 - SB017) - B II ( Roll No.s SB018 - FB034) - B III ( Roll No.s SB035 - SB051) - B IV ( Roll No.s SB052 - SB068) - B V ( Roll No.s SB069 - SB085) - B VI ( Roll No.s SB086 - SB102) - B VII ( Roll No.s SB103 - SB119) - B VIII ( Roll No.s SB120 - SB134)
- Students must remain present 15 min. before the scheduled time of the exam.

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

  
 College Examination Officer  
 P.V.G.'s College Of Science  
 Vidyanageri, S. -44, Parvati,  
 Pune - 411 009.



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

## P.V.G.'s College of Science, Pune SPPU Practical Examination, Second Half of Academic Year 2021-22

Class : T.Y.B.Sc.(Computer Science)  
Semester : VI

Max. Marks : 35  
Duration : 3 hours

Subject	Time	Venue	6/5/2022	7/6/2022	8/6/2022	9/6/2022
CS-367 : Practical Course BASED on ON CS-361 (Operating Systems)	10.00 am to 1.00 pm	Lab I	B I	B III	B V	X
	2.00 pm to 5.00 pm		B II	B IV	B VI	X
CS-368 : Practical Course BASED on ON CS-363 & CS-364 (Web Tech. & Data Ana.)	10.00 am to 1.00 pm	Lab II, V	B III	B V	B I	X
	2.00 pm to 5.00 pm		B IV	B VI	B II	X
CS-369 : Practical Course BASED on ON CS-365 (Advanced Java)	10.00 am to 1.00 pm	Lab I	B V	B I	B III	X
	2.00 pm to 5.00 pm		B VI	B II	B IV	X
CS-3611 Project	10.00 am to 1.00 pm 2.00 pm to 5.00 pm	Lab II Lab III	X	X	X	B I, II, III B IV, V, VI

**Note:**

- 1) Remember, this is SPPU practical exam conducted at college level. Re-exam of absent students will not be conducted under any circumstances.  
Students remaining absent for this exam will have to appear in the next Exam Session.
- 2) Rechecking / Revaluation facility is not available for practical examination, as per SPPU norms.
- 3) B I ( Roll No.s TB001 - TB016) - B II ( Roll No.s TB017 - FB032) - B III ( Roll No.s TB033 - TB048)  
B IV ( Roll No.s TB049 - TB064) - B V ( Roll No.s TB065 - TB80) - B VI ( Roll No.s TB081 - TB096)
- 4) Students must remain present 15 min. before the scheduled time of the exam.

*Rajali*

Principal  
P.V.G.'s College of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009

College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

## P.V.G.'s College of Science, Pune SPPU Practical Examination, Second Half of Academic Year 2021-22

Class : F.Y.M.Sc.(Computer Science)

Semester : II

Subject	Date	Time	Batch	Venue	Max. Marks
CSUP125 : Practical Course on Advanced OS & Mobile Technologies	28/05/2022	10.00 am - 1.00 pm	I	LAB I LAB II	70
		2.00 pm - 5.00 pm	II		
	29/05/2022	10.00 am - 1.00 pm	III	LAB I LAB II	
		2.00 pm - 5.00 pm	IV		
CSDP124 : Soft Computing Practical	30/05/2022	10.00 am - 12.00 pm	I	LAB I	35
		1.00 pm - 3.00 pm & 3.00 pm - 5.00 pm	II, III, IV		

Note:

- 1) Batch I (Roll No. FMS01 to FMS16)                      Batch II (Roll No. FMS17 to FMS32)  
    Batch III (Roll No. FMS33 to FMS48)                      Batch IV (Roll No. FMS49 to FMS65)
- 2) Remember, this is SPPU practical exam conducted at college level. Re-exam of absent students will not be conducted under any circumstances. Students remaining absent for this exam will have to appear in the next Exam Session.
- 3) Rechecking / Revaluation facility is not available for practical examination, as per SPPU norms.
- 4) Students must remain present 15 min. before the scheduled time of the exam.

*RAJODI*

College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.

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



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

P.V.G's College of Science, Pune  
SPPU Practical Examination, Second Half of Academic Year 2021-22

Class : F.Y.M.Sc.(Computer Applications)

Semester : II

Subject	Date	Time	Batch	Venue	Max. Marks
CA-CCPP-2 Data Mining & Warehousing Laboratory	28/05/2022	10.00 am - 1.00 pm	I	LAB I LAB II	70
		2.00 pm - 5.00 pm	II		
	29/05/2022	10.00 am - 1.00 pm	III	LAB I LAB II	
		2.00 pm - 5.00 pm	IV		
CA-CBOPP-2A Java Programming Laboratory	30/05/2022	10.00 am - 12.00 pm	I	LAB I	35
CA-CBOPP-2C Software Testing (Automated) Laboratory		1.00 pm - 3.00 pm & 3.00 pm - 5.00 pm	II, III, IV	LAB III	

Note:

- 1) Batch I (Roll No. FMA01 to FMS15)                      Batch II (Roll No. FMA16 to FMS30)  
Batch III (Roll No. FMS31 to FMS45)                      Batch IV (Roll No. FMA46 to FMS60)
- 2) Remember, this is SPPU practical exam conducted at college level. Re-exam of absent students will not be conducted under any circumstances. Students remaining absent for this exam will have to appear in the next Exam Session.
- 3) Rechecking / Revaluation facility is not available for practical examination, as per SPPU norms.
- 4) Students must remain present 15 min. before the scheduled time of the exam.

*R. Joshi*  
College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.

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



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22



## Pune Vidyarthi Griha's COLLEGE OF SCIENCE

Affiliated to Savitribai Phule Pune University: Identification No PU/PN/SC/157/2001

S.No.44, Vidyanagari, Parvati, Pune 411009

Telephone: (020) 2422 1484 / 2422 7484

Website: [www.pvocos.ac.in](http://www.pvocos.ac.in)

Date: 23/05/2022

### B.Sc. (Computer Science) - Theory Internal Examination Related Notice

- The Internal Theory Examination for all classes of B.Sc. (Computer Science) is to be conducted for 15 marks.
- The Question paper should include 2 sections as follows:
  - Section I (MCQ worth 7 marks) and
  - Section II (4 questions of 1 mark each and 2 questions of 2 marks each=total 8 marks)
- The Question Paper **must be framed** from the Question Bank only. .
- The soft copy of format of question paper is available on Common Data\2021-22\InternalExam-Sem II\InternalExam-QuestionPaperFormat.docx.
- The subject teachers are supposed to use this format while setting the Question Paper.
- In case of visiting staff member for any subject, class teacher should convey these guidelines to the concerned, and get the work done in scheduled time.
- The code typed in RED color in top-right corner box indicates the Question-paper-code, which is to be generated as follows:
  - In the sample code, B T 2 CSII, B stands for B.Sc., T stands for TYBSc class, 2 stands for Semester 2, CSII stands for Computer Science Paper II.
  - Use F for FYBSc, and S for SYBSc to mention class
  - Use E for Electronics, M for Mathematics, S for Statistics, Eng for English
- The blank space after the question paper must be filled with ruled lines as shown in format.
- The subject teachers should get the multiple copies of the Question Paper and attach the required number of ruled papers (available in HOD cabin), get them stapled and submit to CEO 1 day prior to exam date.
- Get your doubts clarified from CEO, if any, well in advance.

*RAJASRI*

College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.

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

P.T.O.





# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

Date: 24.05.2022

## P.V.G's College of Science, Pune 9.

### Notice (for F.Y.B.Sc.(CS) students)

All F.Y.B.Sc. Students are hereby notified that their Internal Examination (Semester II) will be conducted as per the following schedule:

Day & Date	Tuesday 31/05/2022	Wednesday 1/06/2022	Thursday 2/6/2022	Friday 3/6/2022
Time	12.00 pm To 1.00 pm	12.00 pm To 1.00 pm	12.00 pm To 1.00 pm	12.00 pm To 1.00 pm
Subject	MI & MII	E I & E II	CS I & CS II	SI & SII

#### IMPORTANT

- The Internal Exam will be conducted out of 15 marks, for each subject.
- Each question paper will contain 2 sections, Section I will have 7 MCQs and Section II will have 1 & 2 marks questions.
- Students will be given Question Papers of 2 subjects at the same time, to be solved in ONE hour.
- Students are free to solve them in any sequence as per their convenience.
- Before leaving the Examination Hall, students must submit the Question Papers.

#### Note

- No Re-internal will be conducted for students remaining absent for any subject of the Internal Examination (Semester II).
- Internal marks scored out of 15 by each student will be sent to University.

*Rajesh*

College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.

*[Signature]*

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



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

Date: 02.06.2022

## P.V.G's College of Science, Pune 9.

### Notice

(for S.Y.B.Sc.(CS) students)

All S.Y.B.Sc. Students are hereby notified that their Internal Examination (Semester IV) will be conducted as per the following schedule:

Day&Date	Tuesday 07/06/2022	Wednesday 08/06/2022	Thursday 09/6/2022	Friday 10/6/2022
Time	1.30 pm To 2.30pm	1.30 pm To 2.30pm	1.30 am To 2.30pm	Time will be communicated later
Subject	MI & MII	E I & E II	CS I & CS II	EVS & English

#### IMPORTANT

- The Internal Exam will be conducted out of 15 marks, for each subject.
- Each question paper will contain 2 sections, Section I will have 7 MCQs and Section II will have 1 & 2 marks questions.
- Students will be given Question Papers of 2 subjects at the same time, to be solved in ONE hour.
- Students are free to solve them in any sequence as per their convenience.
- Before leaving the Examination Hall, students must submit the Question Papers.

#### Note

- No Re-internal will be conducted for students remaining absent for any subject of the Internal Examination (Semester IV).
- Internal marks scored out of 15 by each student will be sent to University.

*Rajesh*

College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.

*MAD*

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



Pune VidyarthiGriha's  
College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

Date: 24.05.2022

P.V.G's College of Science, Pune 9.

Notice

(for T.Y.B.Sc.(CS) students)

All T.Y.B.Sc.(CS) students are hereby notified that their Internal Examination (Semester VI) will be conducted as per the following schedule:

Day & Date	Tuesday 31/05/2022	Thursday 2/6/2022	Friday 3/6/2022
Time	2.00 Pm To 3.00 pm	2.00Pm To 3.00 pm	2.00 Pm To 3.00 pm
Subject	CS I & CS II	CS III & CS IV	CS V & CS VI

**IMPORTANT**

- The Internal Exam will be conducted out of 15 marks, for each subject.
- Each question paper will contain 2 sections, Section I will have 7 MCQs and Section II will have 1 & 2 marks questions.
- Students will be given Question Papers of 2 subjects at the same time, to be solved in ONE hour.
- Students are free to solve them in any sequence as per their convenience.
- Before leaving the Examination Hall, students must submit the Question Papers.

**Note**

- No Re-internal will be conducted for students remaining absent for any subject of the Internal Examination (Semester VI).
- Internal marks scored out of 15 by each student will be sent to University.

*R. Joshi*  
College Examination Officer  
P.V.G.'s College Of Science  
Vidyanagari, S. 44, Parvati,  
Pune - 411 009.

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



Pune Vidyarthi Griha's  
College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

Internal Exam Attendance sheet

P.V.G's College of Science, Pune - 411009  
Internal Exam - May / June 2022

Date: 11/6/2022  
Class: F4SCS  
Sem: II

Time: 12:08 PM  
Subject Code:  
Subject Name: Electronics 1

Sr. No.	Roll No.	Name of the Candidate	GP Code	Signature
1	56*	Suvarnil Adagale	FB001	Suvarnil
2	131	Gayatri Admane	FB002	Gayatri
3	169	Aruna Aindopure	FB003	Aruna
4	25	Ruchira Ande	FB004	Ruchira
5	22	Neha Badade	FB005	Neha Badade
6	2103	Aditi Banod	FB006	Aditi
7	05	Atharva Bargir	FB007	A.s. Bargir
8	109	Barve Prachi	FB007	Prachi
9	09	Atharva Bathu	FB009	Atharva
10	10	Manas Beke	FB010	Manas
11	11	Swaraj Bhogal	FB011	Swaraj
12	12	Rutvij Bhagwat	FB012	Rutvij
13	13	Nikita Bhargude	FB013	Nikita
14	14	Mahit Bhirav	FB014	Mahit
15	15	Shradh Vaishnavi	FB015	Shradh
16	16	Atharva Bhosale	FB016	Atharva
17	17	Saham Bodhani	FB017	Saham
18	18.	Yash Boudc	FB018	Yash
19	19	Utkarsh Bramhe	FB019	Utkarsh
20	20	Om Chavan	FB020	Om
21	21	Vaishnavi Chavan	FB021	Vaishnavi
22	22	Yugandhara Chhalla	FB022	Yugandhara
23	23	Choudhary Sumit	FB023	Sumit
24	24	Swarnaj Dabke	FB024	Swarnaj
25	253	Maheshwari Dangi	FB025	Maheshwari
26	26	Praniti Dange	FB026	Praniti
27	27	Havshada Deshmukh	FB027	Havshada
28	28	Deshraj Deshmukh	FB028	Deshraj
29	29	Meghana Deshpande	FB029	Meghana
30	30	Atharva Deshpande	FB030	Atharva
31	31	Devlata Deshpande	FB031	Devlata
32	32	Priyraj Ajit Dhumal	FB032	Priyraj
33	33	Kamal Dhume	FB033	Kamal
34	34	Om Disa	FB034	Om
35	35	Kaushal Falke	FB035	Kaushal
36	36	Darshana Gaidwad	FB036	Darshana
37	37	Ridhika Gangapurkar	FB037	Ridhika
38	38	Arya Grovali	FB038	Arya
39	39	Nikita Gavade	FB039	Nikita
40	40	Sanakor Shale	FB040	Sanakor

No. of Candidates Present: 66

No. of Candidates Absent: —

Total: 66

Name of the Supervisor:

Pooja M. Wahale

Signature of the Supervisor:

(Pooja)



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

Date: 9/6/22  
Class: S.Y. BSC  
Sem: IV

P.V.G's College of Science, Pune - 411009  
Internal Exam - May / June 2022

Time: 1.30 - 2.30

Subject Code: CS 42

Subject Name: Computer networks I

Sr. No.	Roll No.	Attendance Sheet Name of the Candidate	QP Code	Block No.:
				Signature
1	SB001	Adhav Palavi		
2	SB002	Subodh Adsul	BS2CS11001	Adsul
3	SB003	Sahil Amrale	BS2CS11002	Amrale
4	SB004	Harsh Ashlekar	BS2CS11003	Ashlekar
5	SB005	Saif Banekar	BS2CS11005	Banekar
6	SB006	Yash Bangude	BS2CS11006	Bangude
7	SB007	RAMAN. A. BANKAR	BS2CS11007	Bankar
8	SB008	shruti R. Bhagwat	BS2CS11008	Bhagwat
9	SB009	Rohan Bhandare	BS2CS11008	Bhandare
10	SB010	Shrikant D. Bhangade	BS2CS11009	Bhangade BS054
11	SB011	Sonika N. Bhaskare	BS2CS11010	Bhaskare
12	SB012	Arthav V. Bhamre	BS2CS11011	Bhamre
13	SB013	Abhishek B. Bhosale	BS2CS11013	Abhishek
14	SB014	Aditya P. Yadav	BS2CS11013	Aditya
15	SB015	Sakshi M. Bhosale	BS2CS11051	Bhosale
16	SB016	Ashish V. Velhu	BS2CS11044	Velhu
17	SB017	Tejas T. Bhasale	BS2CS11015	Bhasale
18	SB018	Anuj P. Bhuvad	BS2CS11047	Bhuvad
19	SB019	Gayatri Bhatnagar	BS2CS11051	Bhatnagar
20	SB020	Madhura Chakole	BS2CS11016	Chakole
21	SB021	Aditi Chavan	BS2CS11017	Chavan
22	SB022	Harshwardhan D. Dadhe	BS2CS11053	Dadhe
23	SB023	Damul Bhurana Suresh	BS2CS11018	Suresh
24	SB024	Shreyas D. Daund	BS2CS11024	Daund
25	SB025	Harsh A. Deshmukh	BS2CS11026	Deshmukh
26	SB026	Sahil Deshpande	BS2CS11061	Deshpande
27	SB027	Samudra Khepade	BS2CS11028	Khepade
28	SB027	Yash Deshpande	BS2CS11021	Deshpande
29	SB028	Vansha Dhekane	BS2CS11022	Dhekane
30	SB029	Raj Dhole	BS2CS11063	Dhole
31	SB030	Kshitij Vikas Dimple	BS2CS11024	Kshitij
32	SB031	Shamika Dhanraj Diwan	BS2CS11026	Shamika
33	SB032	Shriya Dake	BS2CS11046	Dake
34	SB033	Tanisha Dake	BS2CS11029	Dake
35	SB034	Prashant Dubale	BS2CS11031	Dubale
36	SB035	Pranav Dubey	BS2CS11032	Dubey
37	SB036	Vaishnavi Dubey	BS2CS11060	Dubey
38	SB037	Durgesh Gulkar	BS2CS11059	Gulkar
39	SB038	Pushkaraj Gulkar	BS2CS11038	Gulkar
40	SB039	Gelonde Gulkar	BS2CS11037	Gulkar

No. of Candidates Present:

No. of Candidates Absent:

Total:

Name of the Supervisor:

Sonali Mutha

Signature of the Supervisor:

*[Signature]*



# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

## Internal Exam Question Paper

Supervisor's Sign  
with date  
*[Signature]*

P.V.G's College of Science, Pune – 411009  
Internal Exam (Second Half of Academic Year 2021-22)

BF2MII  
5

For Staff use only  
Marks out of 15: 13  
Examiner's Sign: *[Signature]*  
Examiner's Name: Prof. Mohini Pardeshi

Seat No. FB005  
Class: F.Y.B.Sc(CS)  
Subject: Graph Theory (M2)  
Date: 31/05/2022

### Instructions:

- Scratching & Overwriting is not permitted.
- For Section I, answer must be written in the box for evaluation.
- For empty boxes, no marks will be granted.

### Section I (7 marks)

[1 x 7 = 7 marks]

#### Q.1 Choose the correct alternative

i) A vertex with degree.....is called an isolated vertex.

- a) 3    b) 1    c) 0    d) 4

c

ii) Loop is an edge that connects a vertex to....

- a) Itself    b) Adjacent Vertex    c) Incident Vertex    d) Opposite Vertex.

b

iii) A connected graph that has n vertices must have atleast .... Edges.

- a) n    b) n-1    c) n/2    d) 2n

b

iv) The Maximum number of edges in a simple graph with 5 vertices & 3 components is.

- a) 1    b) 2    c) 3    d) 4

c

v) A path in graph G, which contains every vertex of G once & only once is called....

- a) Euler Tour    b) Hamiltonian Path    c) Euler Trail    d) Hamiltonian Tour

b

vi) A graph has an Euler circuit if....

- a) Every vertex has even degree    b) It is connected & has an even number of vertices

c) It is Connected & has an even number of edges.

d) It is connected & every vertex has even degree

d

vii) In a tree there exist exactly .....Path joining any two vertices.

- a) 1    b) 2    c) 3    d) 4

a

### Section II (8 marks)

#### Q.2 Answer any 4 of the following:

[2 x 4 = 8marks]

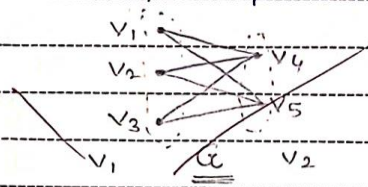
- Define complete bipartite graph with example.
- Find maximum edge connectivity of graph having 10 vertices & 16 edges.
- graph G is a tree if & only if it is minimally connected.
- Give an Example of a self complementary graph on 5 vertices.
- Draw the graph: 1) Eulerian as well as Hamiltonian graph.  
2) Eulerian but not Hamiltonian graph.



Q.2

(Start writing from here)

i) = If every vertex of vertex set  $V_1$  is adjacent to every vertex of vertex set  $V_2$  connected to every vertex one of end vertex to another in  $V_1$  &  $V_2$  then that graph is called complete bipartite graph.



$$V = \{v_1, v_2, v_3, v_4, v_5\}$$

After bipartitioning

$$V_1 = \{v_1, v_2, v_3\}$$

$$V_2 = \{v_4, v_5\}$$

ii) = The maximum edge connectivity of graph having 10 vertices & 16 edges is.

$$\lambda(G) \leq \left\lfloor \frac{2m}{n} \right\rfloor$$

In the following  $\lambda(G)$  is edge connectivity

$$\lambda(G) = 10 \text{ vertices} \quad m = \text{no. of edges}$$

$$\lambda(G) \leq \left\lfloor \frac{2m}{n} \right\rfloor \quad 10 \leq \left\lfloor \frac{2 \times 16}{n} \right\rfloor$$

$$n = \frac{32}{10}$$

$$\therefore \lfloor n = 3.2 \rfloor$$

$\therefore$  The max. edge connect. is 3.2

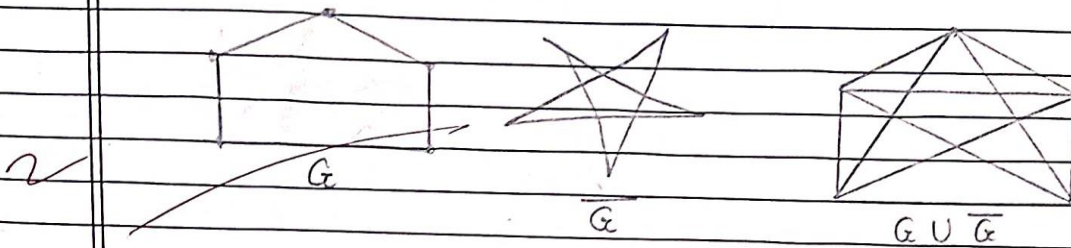
iii) =



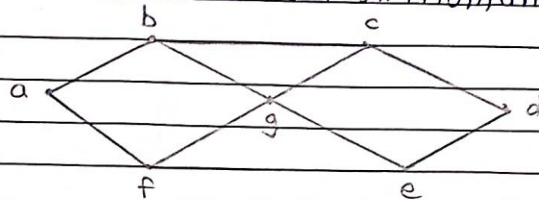
Roll  
No. FB005

Page  
No.

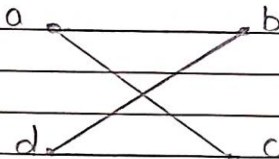
iv) = Self Complementary graph on 5 vertices.



v) = i) = Eulerian as well as Hamiltonian.



ii).



Eulerian but not hamiltonian graph.





# Pune Vidyarthi Griha's College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

## Internal Exam Mark sheet

P.V.G.'s College of Science, Pune - 411009  
Internal Exam - May / June 2022

Class: V B Sc. (Computer Science)  
Sem: II

Subject Code: APTC-222  
Subject Name: Graph Theory

Roll No.	Name of the Candidate	Marks (out of 10)	Roll No.	Name of the Candidate	Marks (out of 10)
FB001	AGARWAL ANSHU BHARADWAJ	06	FB041	GOBARE ANI VIKRANT	05
FB002	AGARWAL YASHVI KARTHIK	06	FB042	GOBARE PRADIP RAHUL	06
FB003	AGARWAL ARYA CHITRAI	01	FB043	GOJAVAT RUTHA RAHIMBA	05
FB004	AGARWAL CHITRA VIKRANT	10	FB044	GOJALE SHRI VAHAB	11
FB005	AGARWAL RUTHA SURB	13	FB045	GOJALE SURESH RAJESH	05
FB006	AGARWAL ANSHU CHITRAI	01	FB046	GOJALE PARSHI DALTADEVA	10
FB007	AGARWAL ANSHU SURB	11	FB047	GOJALE ABHISHEK ANVIT	08
FB008	AGARWAL CHITRA ANVIT	13	FB048	GOJALE ABHISHEK UJAPATI	08
FB009	AGARWAL ANSHU VAHAB	08	FB049	GOJALE SHIBHANGI SHI	06
FB010	AGARWAL ANSHU ANVIT	10	FB050	GOJALE ANURAG RAJESH	06
FB011	AGARWAL ANSHU ANVIT	10	FB051	GOJALE ANVIT ANVIT	06
FB012	AGARWAL RUTHA RAHIMBA	11	FB052	GOJALE ANVIT RAHUL	03
FB013	AGARWAL NIKITA PARVATI	05	FB053	GOJALE ANVIT RAHUL	07
FB014	AGARWAL ANSHU ANVIT	05	FB054	GOJALE ANVIT RAHUL	06
FB015	AGARWAL ANSHU ANVIT	10	FB055	GOJALE ANVIT RAHUL	08
FB016	AGARWAL ANSHU ANVIT	06	FB056	GOJALE ANVIT RAHUL	07
FB017	AGARWAL ANSHU ANVIT	07	FB057	GOJALE ANVIT RAHUL	08
FB018	AGARWAL ANSHU ANVIT	07	FB058	GOJALE ANVIT RAHUL	05
FB019	AGARWAL ANSHU ANVIT	06	FB059	GOJALE ANVIT RAHUL	08
FB020	AGARWAL ANSHU ANVIT	07	FB060	GOJALE ANVIT RAHUL	09
FB021	AGARWAL ANSHU ANVIT	07	FB061	GOJALE ANVIT RAHUL	14
FB022	AGARWAL ANSHU ANVIT	07	FB062	GOJALE ANVIT RAHUL	05
FB023	AGARWAL ANSHU ANVIT	07	FB063	GOJALE ANVIT RAHUL	06
FB024	AGARWAL ANSHU ANVIT	07	FB064	GOJALE ANVIT RAHUL	07
FB025	AGARWAL ANSHU ANVIT	08	FB065	GOJALE ANVIT RAHUL	07
FB026	AGARWAL ANSHU ANVIT	05	FB066	GOJALE ANVIT RAHUL	05
FB027	AGARWAL ANSHU ANVIT	09	FB067	GOJALE ANVIT RAHUL	04
FB028	AGARWAL ANSHU ANVIT	05	FB068	GOJALE ANVIT RAHUL	06
FB029	AGARWAL ANSHU ANVIT	08	FB069	GOJALE ANVIT RAHUL	
FB030	AGARWAL ANSHU ANVIT	07	FB070	GOJALE ANVIT RAHUL	
FB031	AGARWAL ANSHU ANVIT	08	FB071	GOJALE ANVIT RAHUL	06
FB032	AGARWAL ANSHU ANVIT	08	FB072	GOJALE ANVIT RAHUL	03
FB033	AGARWAL ANSHU ANVIT	02	FB073	GOJALE ANVIT RAHUL	07
FB034	AGARWAL ANSHU ANVIT	04	FB074	GOJALE ANVIT RAHUL	
FB035	AGARWAL ANSHU ANVIT	03	FB075	GOJALE ANVIT RAHUL	04
FB036	AGARWAL ANSHU ANVIT	10	FB076	GOJALE ANVIT RAHUL	05
FB037	AGARWAL ANSHU ANVIT	06	FB077	GOJALE ANVIT RAHUL	07
FB038	AGARWAL ANSHU ANVIT	09	FB078	GOJALE ANVIT RAHUL	05
FB039	AGARWAL ANSHU ANVIT	06	FB079	GOJALE ANVIT RAHUL	04
FB040	AGARWAL ANSHU ANVIT	05	FB080	GOJALE ANVIT RAHUL	06



Pune Vidyarthi Griha's  
College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2021-22

Roll No.	Name of the Candidate	Marks (out of 15)	Roll No.	Name of the Candidate	Marks (out of 25)
FB081	KUKKAR KHUSHI RAVINDRA	04	FB121	PORE TANVI SAMEER	06
FB082	KULKARNI SHUBHANKAR ASHISH	05	FB122	PURANDHARE MAYUR MANOJ	05
FB083	KUDAL GAYATRI ASHOK	05	FB123	RAJE NEERAJ ANIL	05
FB084	KUSEKAR SAKSHI VIJAY	06	FB124	RASKAR NEEL PANDURANG	06
FB085	LOKHANDE AKANKSHA R.	04	FB125	SALUNKE VAISHNAVI VITTHAL	05
FB086	MADANE PRASHANT SOPAN	05	FB126	SALVE YASH DAULAT	04
FB087	MALI ADITYA DIPAK	04	FB127	SANKLECHA VIVA PRAVIN	07
FB088	MALPOTE SAKSHI SANTOSH	04	FB128	SARPALE SIDDHI SANTOSH	10
FB089	MANDAL BIPIN DEEPAK	03	FB129	SASTE AJINKYA MANGESH	10
FB090	MANDHARE PRATIK VIJAY	04	FB130	SHAIKH AMAN ABID	06
FB091	MANDHARE YASH POPAT	07	FB131	SHAIKH ARBAJ SIRAJ	07
FB092	MARATHE SHRUTIKA VASANT	06	FB132	SHELAR SOHAN RAJENDRA	07
FB093	MORE ADITYA SATISH	07	FB133	SHENDGE SAGARIKA MARUTI	04
FB094	MORE DEVYANI SANJAY	06	FB134	SHILIMKAR ROHAN RAJAN	05
FB095	MUSALE NISHA EKNATH	05	FB135	SHINDE AISHWARYA MAHENDRA	06
FB096	NAGARKAR SHREYAS SHRINIWAS	06	FB136	SHINDE MANSEE SHASHIKANT	05
FB097	NAIK ISHWARI NANDALAL	07	FB137	SHINDE SAMEER SAKHARAM	04
FB098	NAIR RITIN VIJAY	05	FB138	SOMAN YUVRAJ RAMCHANDRA	05
FB099	NANGUDE PIYUSHA PRAVIN	05	FB139	SONAWANE SHREYA ANIL	04
FB100	NIGADE PAVAN SANDIP	06	FB140	SUKHDEVE SHREYAS ARVIND	04 04
FB101	NIGADE SHWETA GOPAL	06	FB141	SULAKHE PRATHAMESH R.	04
FB102	NILEE LALIT AMAR	04	FB142	SUPEKAR AKSHDA KALIDAS	05
FB103	NIRGUN SAKSHI PRATAP	04	FB143	SUTAR SANIL KISAN	06
FB104	NIVANGUNE SIDDHI RAMDAS	06	FB144	TAKAWALE SAKSHI SANJAY	04
FB105	PACHPUTE RUTUJA SANTOSH	06	FB145	TAWDE AKANKSHA P.	04
FB106	PADRAT SAYALI SUNIL	05	FB146	TEKE PARTH PRASHANT	06
FB107	PAIGUDE AASHISH RAHUL	07	FB147	THORAT SAKSHI KIRAN	04
FB108	PALAVE ANJALI SIDDHESHVAR	05	FB148	THORAT SRUSHTI SUNIL	05
FB109	PANDE AKANKSHA AVINASH	06	FB149	VANARASE AMOD AVINASH	05
FB110	PARTE ABHIRAJ GANESH	06	FB150	VAWAL SIDDHI SACHIN	03
FB111	PATEL JUNAID JALIL	03	FB151	VISPUTE KAUSTUBH MOHAN	03
FB112	PATIL MOHINI NITIN	05	FB152	WAGHMARE EKTA DEEPAK	04
FB113	PATIL PRAJYOT PRAVIN	04	FB153	WAGHMARE SALOMI VISHWAS	07
FB114	PATIL PRANJAL GIRISH	04	FB154	WAGHRESHA KRISH DEVENDRA	12
FB115	PATIL SHRAVANI SANTOSH	04	FB155	YADAV ATHARVA VIJAY	08
FB116	PEERJADE MOHAMMADSAAD A.	04	FB156	YADAV YASH SANTAJI	05
FB117	PETHSANGAVIKAR ANISHA !!	10	FB157	YANDE SAMRUDHI SANDIP	05
FB118	PILAWARE SHRUTI BALASAHEB	07	FB158	YELBHAR SHIRAVANI ANIL	08
FB119	PISAL SNEHAL AMOL	05	FB159	ZAMRE JANHAVI PRASHANT	08
FB120	PISAL SUYASH SUBHASH	06	FB160	JADHAV AMAR VITTHAL	06