CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

For Practical Examination Only

Session: Nov-Dec 2021 Examination

Name of Examination: B.tech, Regular   Semester: 3rd   Date: 04./04./2022

Subject Code: B022324(022)   Subject Name: Software Laboratory (Sci Lab/Mat Lab)

Name of Student: V Om Sai Nageshwar Sharma

Roll No. of Student: 303302220020   Enroll No: BJ4599

Name of the Institution: SSIPMT, Raipur   Institute Code: 033

Name of Experiment Allotted: Q1.)[4] Sci Lab program to calculate area of circle

Q2.)[11] Write a program to check a given matrix is symmetric or not.

Signature of Student

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY

Bhilai, Durg, Chhattisgarh

Admit Card for Session Nov-Dec 2021

STUDENT DETAILS

Registration No.	BJ4599	Roll No	303302220020
College Name	033 - SHRI SHANKARACHARYA INSTITUTE OF PROFESSIONAL MANAGEMENT & TECHNOLOGY,RAIPUR		
Student's Name	V OM SAI NAGESHWAR SHARMA		
Gender	Male	Date of Birth	17-02-2001
Father's Name	V Somshekhar Sharma	Current Semester	3 SEMESTER
Program	B Tech Computer Science Engineering	Course	B Tech

SUBJECT DETAILS

Sl	Semester	Subject Type	Subject Code	Subject Name	Exam Session	Exam Type	ToAppear	Date & Time of Exam
1	3 SEMESTER	Sessional	B000306(046)	Personality Development	Nov-Dec 2021	Regular	Y	23/03/22 10:00 am
2	3 SEMESTER	Theory	B000311(022)	Data structure & Algorithms	Nov-Dec 2021	Regular	Y	21/03/22 10:00 am
3	3 SEMESTER	Theory	B000312(014)	Mathematics - III	Nov-Dec 2021	Regular	Y	25/03/22 10:00 am
4	3 SEMESTER	Theory	B000313(022)	Principles of Programming Languages	Nov-Dec 2021	Regular	Y	28/03/22 10:00 am
5	3 SEMESTER	Theory	B000314(022)	Digital Electronics& Logic Design	Nov-Dec 2021	Regular	Y	30/03/22 10:00 am
6	3 SEMESTER	Theory	B000315(022)	Operating Systems	Nov-Dec 2021	Regular	Y	
7	3 SEMESTER	Practical	B000321(022)	Data structure & Algorithms Laboratory	Nov-Dec 2021	Regular	Y	
8	3 SEMESTER	Practical	B000322(022)	Digital Electronics& Logic Design Laboratory	Nov-Dec 2021	Regular	Y	01/04/22 10:00 am
9	3 SEMESTER	Practical	B000323(022)	Operating Systems Laboratory (UNIX)	Nov-Dec 2021	Regular	Y	04/04/22 10:00 am
10	3 SEMESTER	Practical	B000324(022)	Software Laboratory (Sci Lab/MATLAB)	Nov-Dec 2021	Regular	Y	

Signature should match with uploaded signature of candidate

Signature of the Candidate (while receiving)   Signature of the Principal   Signature of COE

INSTRUCTION FOR WRITTEN EXAMINATION

1. Candidates suffering from any diseases which would render their presence in the Examination Hall undesirable in the interests of other candidates will not be allowed to enter the Examination Hall. In exceptional cases the Centre Superintendent informed by a candidate in advance may make special arrangements.

2. The doors of the Examination Hall will be opened half an hour before the examination starts on the first day and 15 minutes before on other days. Candidates are required to sit in their allotted seats 5 minutes before the examination starts. Candidates arriving after the start of examination will not be admitted unless specially permitted by the Centre Superintendent. The Candidate shall not be allowed to consult any book or paper either in the Examination Hall or out-side.

3. Candidates should bring their own pens and Mathematical instruments. Candidates should not be in possession of printed manuscripts (Other than their Admit Card), books and other documents, while in the Examination Hall. Manual consultation in the Examination Hall, bringing in Electronic equipments and other printed manuscripts from outside is forbidden.

4. Candidates are not allowed to leave the hall until as hour after examination starts. They should not leave their seats until they have submitted their answer books to an invigilator. Answer books should not be left behind on the desks. It is the duty of the candidate to see that his answer paper is received by the invigilator. No candidate will be allowed to re-enter the examination hall after once quitting it on submission of his answer paper. In case of urgent need however candidate may be permitted by the senior invigilator to leave the hall temporarily and not more than once in an hour special supervision. The period of temporary absence should not exceed 3 minutes.

5. Candidates are not permitted to talk to each other in the Examination Hall. No one should receive help from or assist another in any manner.

6. Candidates should write their Regd No and Roll No on the cover page of his/her answer book. Candidates are forbidden to write their own name and Code No of his/her college in the answer book while answering the questions. Giving a false Roll No is serious offence and no answer book without the candidates Roll Number clearly written on the cover page will be examined.

7. Candidates should not, while in the examination hall write anything on the question paper or blotting papers nor should they take out of the hall any paper other than the question paper examined.They should not also send the question paper or the examination outside throughout the duration of the examination.

8. If a candidate is found with any paper not connected with the examination as mentioned in 4 he shall have to surrender it to the invigilator on demand and make a written statement. If necessary refusal to surrender the material or to make a statement shall render the candidate liable to instant expulsion from the Centre of Examination.

9. A Candidate wishing to say anything should stand up on his seat and remain standing until an invigilator comes to him. He should on no account leave his seat or make any noise to call the invigilator's attention to him. Candidates are required to behave properly and maintain absolute discipline inside and outside the Examination Hall. Any candidate accused to

Q1)(4) Sci Lab program to calculate area of circle.

AIM: Sci-Lab program to calculate area of circle.

Objective: How to use some mathematical symbols in scilab. Like pi, And using it in calculating area of circle.

Code:

```
/* Scilab Program to calculate
   area of a circle.
        Area = pi * r^2

*/

r = input ("Enter radius of a circle (in cm);
Area = %. pi * (r^2);

msg = "Area of the circle is:";
disp(AREA, msg)
```

<u>Output :</u>

Enter radius of a circle (in cm):12
Area of the circle is:

452. 3893421 6930 20 87037

Q2>(11) Write a program to check a given matrix is symmetric or not

AIM: write a program to check a given matrix is symmetric or not.

Objective: How to implement decision making statements in scilab. And performing transpose of matrix.

Code: /* Sci Lab program to check a given matrix is symmetric or not. A matrix is symmetric if it's transpose is same as actual matrix.

$$A = A'$$ */

```
a = input ("Enter a Matrix:");
b = a';

if a == b . then
disp (" Given matrix is symmetric.")

else
disp (" Given matrix is Not-Symmetric")
end
```

Output :

Enter a Matrix : [1, 2, 3; 3, 2, 1]

Given matrix is not symmetric.

Enter a Matrix : [1, 0; 0, 1]

Given matrix is symmetric.

——————— x ——————— x ———————