

2018
CBCS
1st Semester
COMPUTER SCIENCE
(General)
PAPER—DSC-1AP
(Practical)
Full Marks : 20
Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Python Lab.

Set-1

Answer any one question (Lottery basis).

1. Write a program in Python to find the factorials of an integer. 15
2. Write a program in Python to find the first n fibonacci numbers. 15
3. Write a program in Python to calculate the total marks, percentage and grade of a student. *Marks obtained in each of the three subjects should be input by the user. Assign grades according to the following criteria :*

Grade A : Percentage ≥ 80	
Grade B : Percentage ≥ 70 & < 80	
Grade C : Percentage ≥ 60 & < 70	
Grade D : Percentage ≥ 40 & < 60	
Grade E : Percentage < 40 .	15

4. Write a program in Python to find the sum of the series :

$$1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \dots + \frac{1}{n} . \quad 15$$

5. Write a program in Python to calculate the product of two compatible matrices. 15

6. Write a menu-driven program to create the following 3D objects :

1 : Sphere	
2 : Cylinder	
3 : Cube.	15

7. Write a program in Python to read n integers and display them as histogram. 15

8. Write a program in Python to display the cosine curve. 15

9. Write a program in Python to demonstrate a bar chart. 15

10. Write a program in Python to test if an integer is Armstrong or not. 15

Practical Note Book — 2

Viva-voce — 3

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Python Lab.

Set-2

Answer any one question (Lottery basis).

1. Write a program in Python to display the sine curve. 15
2. Write a program in Python to demonstrate a bar chart. 15
3. Write a program in Python to test if an integer is palindrome or not. 15

(Turn Over)

4. Write a program in Python to read a set of integers and display these as histogram. 15
5. Write a program in Python to find the factorial of an integer. 15
6. Write a program in Python to generate first 20 fibonacci numbers. 15
7. Write a program in Python to display the reverse of an integer. 15
8. Write a program in Python to calculate the value of the following series :
$$1 + \frac{1}{2^2} + \frac{1}{3^2} + \frac{1}{4^2} + \frac{1}{5^2} + \dots + \frac{1}{n^2}$$
 15
9. Write a program in Python to find the highest of n numbers. 15
10. Write a program in Python to test if an integer is armstrong or not. 15

Practical Note Book — 2

Viva-voce — 3
