

B.Sc. Semester-IV Examination, 2022-23**COMPUTER SCIENCE [Honours]**

Course ID : 41514

Course Code : SH/CSC/404/GE-4

Course Title : Programming in Python

Time : 1 Hour 15 Minutes

Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*A. Answer any **five** of the following questions: $1 \times 5 = 5$

1. What is recursive function?
2. How do you write comments in Python?
3. What is range() in python?
4. What is the purpose of break statement in Python?
5. What is dictionary in Python?
6. What does rand() do in Python?
7. What is an Algorithm?
8. Why Python is called interpreted language?

B. Answer any **two** of the following questions: $5 \times 2 = 10$

1. What are the different data types available in Python? What are the difference between list and tuples in Python? $2+3$
2. Write a Python program to sum all the items in a list.
3. Write down the key features of Python.
4. Write down a python program to reverse a given String.

C. Answer any **one** of the following questions: $10 \times 1 = 10$

1. What is a loop? Explain different looping statement with example in Python. $2+8$
2. Write a program to find the factorial of a given number. Draw a flowchart to print fibonacci series (5 elements). $5+5$

B.Sc. Semester-IV Examination, 2022-23

COMPUTER SCIENCE [Honours]

Course ID : 41514 Course Code : SH/CSC/404/GE-4

Course Title : Web and E-commerce Technologies

Time : 1 Hour 15 Minutes Full Marks : 25

The figures in the right-hand margin indicate marks.

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

A. Answer any **five** of the following questions: $1 \times 5 = 5$

1. What is the full form of NEFT?
2. What is SSL?
3. What is digital cash or e-cash?
4. Which type of e-commerce deals with auction?
5. What is E-CRM?
6. What is Supply Chain Management (SCM)?
7. What is ERP system?
8. What is Digital signature?

B. Answer any **two** of the following questions: $5 \times 2 = 10$

1. Discuss the security requirements of Internet and E-commerce applications.

2. Discuss e-governance. What are the components of Electronic Data Interchange? $2+3$
3. Distinguish between SSL and SET protocol.
4. Explain the ways and means of protecting online website operations from hackers.

C. Answer any **one** of the following questions:

$10 \times 1 = 10$

1. What do you mean by business model? Explain briefly each business model. $3+7$
2. Discuss the steps involved in designing a Web site for e-commerce. Explain RSA algorithm. $5+5$