

BANKURA UNIVERSITY

B.Sc. (Honours) Semester-IV Examination, 2022

Subject: Computer Science

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

Course ID.: *41514*

Course Title: Programming in Python

Full Marks: 25

Time: 1Hr. 15min.

1. **Answer any five questions:** 1×5=5
 - (a) What is membership operator in python?
 - (b) How to import modules in python?
 - (c) What is set data type in python?
 - (d) What is split used for in python?
 - (e) What are the negative indexes used for?
 - (f) What does len () do in python?
 - (g) Why cache memory is used?
 - (h) Mention different types of primary memory?
2. **Answer any Two questions:** 5×2=10
 - (a) What are the data types used in python? Explain dictionary data types with example.2+3
 - (b) What is recursive function? Write a recursive python program to find the gcd of two user input numbers. 1+4
 - (c) Explain memory hierarchy of computer with diagram.
 - (d) Draw the flowchart to find the reverse of a given number.
3. **Answer any one question:** 10×1=10
 - (a) Draw the basic framework of computer (Von Neumann Architecture). Describe each part briefly with example.
 - (b) Write an algorithm to check whether a given number is prime or not . Write a python program to add two user input matrices. 4+6

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Subject: Computer Science

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

Course ID.: *41514*

Course Title: Web and E-Commerce Technologies

Full Marks: 25

Time: 1Hr. 15min.

1. **Answer any five questions:** 1×5=5
 - (a) What is e-Commerce?
 - (b) What is ARP?
 - (c) Define electronic payment system.
 - (d) What is cryptography?
 - (e) What is virus in computer system?
 - (f) What is the full form of www?
 - (g) What is firewall?
 - (h) What is e shopping?

2. **Answer any Two questions:** 5×2=10
 - (a) Discuss B2B and C2B model giving proper examples.
 - (b) Define Electronic Data Interchange. What are the components of Electronic Data Interchange?
 - (c) Explain the concept of “Business Content” in SAP Business Information Warehouse.
 - (d) Discuss the security requirements of Internet and E-commerce applications.

3. **Answer any one question:** 10×1=10
 - (a) Discuss the framework of ecommerce.
 - (b) Explain in details about legal issues in ecommerce.