

BANKURA UNIVERSITY

B.Sc. Semester-IV(Honours) Examination, 2021

*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) How power function( $x^y$ ) applied in python using arithmetic operators?
  - (b) What is dictionary data type in python?
  - (c) What is the difference between tuple and list data type in python?
  - (d) What is the purpose of math.sqrt() function?
  - (e) Why cache memory is used?
  - (f) Mention different types of memory?
  - (g) What is the full form of ASCII?
  - (h) What is interpreter? Give example.
2. Answer any Two questions: 5×2=10
  - (a) Explain different data types in python.
  - (b) Write a python program to find the gcd of two user input numbers.
  - (c) Describe memory hierarchy of computer with diagram.
  - (d) Draw the flowchart to calculate the sum of digits 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 year is leap year or not. Write a python program to print Fibonacci series. 5+5=10

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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 C2C 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.