HISSAN CENTRAL EXAMINATION – 2080 (2024)

Grade : XII   **F.M. : 50**

Time   : 2 hrs

COMPUTER SCIENCE (4281 M1)

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

GROUP A

Multiple Choice Questions.

Tick / Select the best alternative.   **[9 × 1 = 9]**

1. Which of the following technique is used to grant privileges to user in a database?
   a) cryptography   b) Authorization
   c) atomicity   d) backup
2. With SQL, how do you select all the records from a table named "employee" where the value of column "city" is "Pokhara "?
   a) Select * from employee where city is exactly Pokhara
   b) Select * from employee where city is equal to Pokhara
   c) Select * from employee where city = Pokhara
   d) Select * from employee where city not in Pokhara
3. What is the first step in the software development lifecycle?
   a) System development   b) System maintenance
   c) Coding   d) System analysis
4. What is the minimum number of functions to be present in a C program?
   a) 4   b) 1   c) 2   d) 3
5. Which of the following is email protocol ?
   a) FTP   b) Telnet   c) SMTP   d) All of the above
6. What will be the result of combining a string with another data type in PHP?
   a) Float   b) int   c) string   d) double
7. Which of the following keyword is used to declare a variable in JavaScript?
   a) suppose   b) float   c) var   d) char
8. Which of the following is preserved in execution of transaction in isolation?
   a. Atomicity   b. Isolation
   c. Durability   d. Consistency
9. The process of deriving new class from base class is …..
   a) class   b) Polymorphism
   c) Inheritance   d) Data bstraction

GROUP B

Short answer questions   **[5 × 5=25]**

10. Explain 3 NF with example.

OR

Create a table " NEB" with attributes schoolname, district, code in database. [5]

11. What is OOPs? Define the terms object, data abstraction and inheritance.   [2+3]
12. What do you mean by feasibility study? Why is it necessary before designing a system?   [2+3]
13. Why is artificial intelligence (AI) becoming popular in today? Explain.   [5]
14. Write a function to multiply two numbers in javascript.   [5]

OR

Write a function to add two numbers in PHP.   [5]

GROUP C

Long answer questions   **[2 × 8=16]**

15. Define network topology. Explain different types of network architecture.   [2+6]
16. Define structure. Write a C program to store information of 5 employees (eid, ename, esalary, eaddress) and display it using structure variable.   [2+6]

OR

What is function? Write a C program to read a 2 numbers and find sum using function.   [2+6]

THE END