

**NEB - GRADE XII  
2079 (2022)  
Computer Science  
New Course**

(For regular students)

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

**Time: 2 hrs.****Full Marks: 50**

Attempt all the questions.

**Group 'A'**

Rewrite the correct options of each questions in your answer sheet. 9x1=9

- Which of the following SQL statement is used to DELETE rows from a database table?  
A) DELETE                      B) REMOVE  
C) DROP                         D) CLEAR
- A field that is used to uniquely define a particular record in a table is called:  
A) Primary Key    B) Entity    C) Relationship    D) Constraints
- What does "MAC" stands for in MAC Address?  
A) Mandatory Access Control    B) Media Access Control  
C) Micro Access Control         D) Media Access Certificate
- What is the correct syntax for referring to an external JavaScript script?  
A) <script src="myscript.js"></script>  
B) <script href="myscript.js"></script>  
C) <js href="myscript.js"></js>  
D) <js src="myscript.js"></js>
- Which of the following is the correct way of defining a variable in PHP?  
A) \$variable name = value;        B) \$variable\_name = value;  
C) \$variable\_name = value        D) \$variable name as value;
- What is the output of C program?  
**void main(){ int b=25;  
//b memory location=1234;  
int \*p; p=&b; printf("%d %d", &b, p);}**  
A) 25 25    B) 1234 1234    C) 25    1234    D) 1234    25

- Which feature of OOP is illustrated the code reusability?  
A) Polymorphism    B) Abstraction    C) Encapsulation    D) Inheritance
- Which of following is the discovering requirement from a user in the requirement collection process?  
A) Feasibility study                      B) Requirement Elicitation  
C) Requirement Specification        D) Requirement validation
- What devices are detecting and responding to changes in an environment that are embedded in smart phones and an integral part of the Internet of Things (IoT)?  
A) Wi-Fi        B) Barcode        C) RFID                      D) Sensors

**Group 'B'****Short answer questions****5x5=25**

- Differentiate the centralized and distributed database system.

**OR**

What are the purposes of normalization? Give an example of 2NF.

- Write a program to find the factorial of any given number using Javascript.

**OR**

How do you fetch data from database in PHP and display it in form? Describe.

- Compare the OOPs and procedural programming language.
- What are the major activities performed to design the software? Describe.
- Explain the popular five-application areas of AI.

**Group 'C'****Long answer questions****8x2=16**

- Compare the star and ring topology with pros and cons. Which of data communication cable is more appropriate to design the local area network? Describe. 5+3
- What is structure? Write a program to input roll, name and age of 5 students and display them properly using structure. (2+6)

**OR**

Write a C program to enter ID, employee\_name, and post of the employee and store them in a data file named "emp.txt". Display each record on the screen in an appropriate format.

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