



The Times Secondary School

Dillibazar, Kathmandu

First Terminal Examination – 2080

Grade: - XII

Set A

Full Marks:-50

Stream: Science

Pass Marks:-20

Subject: - Computer Science

Time : 2 hrs

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

Group – 'A'

Rewrite the correct options of each question in your answer sheet. [9 x 1 = 9]

- Which of the following statements are used in DML commands?
 - Select, drop, update
 - Select, insert, delete
 - Select, drop, delete
 - Select, modify, drop
- With SQL, how do you select all the records from a table named "Student" where the value of column "address" is "KTM"?
 - Select * from Student where address="Kathmandu";
 - Select name from Student where location="KTM";
 - Select * from Student where address="KTM";
 - Select All from Students where address="KTM";
- Which of the following is a programming language to make our webpages dynamic?
 - HTML
 - CSS
 - JavaScript
 - ActionScript
- What is the correct syntax for referring an external JavaScript?
 - <script src="myscript.js"> </script>
 - <script href="myscript.js"> </script>
 - <js href="myscript.js"> </js>
 - <js src="myscript.js"> </js>
- What is the output for this program?

```
#include<stdio.h>
void main()
{
    int a = 5;
    int *x = &a;
    printf("%d",x);
    getch()
}
```

 - 5
 - Memory address of x
 - Memory address of a
 - null
- A variable which holds memory address of another variable is _____.
 - Function
 - Array
 - Pointer
 - Structure
- Which of the following is features must be supported by any programming language to become a pure object-oriented programming language?
 - Encapsulation
 - Inheritance
 - Polymorphism
 - All

- Which feature of OOP is illustrated the code reusability?
 - Polymorphism
 - Inheritance
 - Encapsulation
 - Abstraction
- Which wireless networking standard is commonly used for high-speed, short-range communication between devices like smartphones and laptops?
 - Bluetooth
 - Wi-Fi
 - LTE
 - None

Group – 'B' (Short answer questions)

Attempt all question.

[5 x 5 = 25]

- What is a Database Management System? Write any four advantages of DBMS. [1+4]
 - Define Keywords and Variable. Write a C program to input length and breadth of a rectangle and find the area. [1+1+3]
- Or*
- Define recursive function. WAP in C to calculate factorial of a given number using recursion. [1+4]*
- Explain Relational Database Management System with example. [5]
 - Define JavaScript. Differentiate between client and server-side scripting language. [1+4]

Or

Write any two uses of JavaScript. Write a JavaScript program to display multiplication table of given number. [2+3]

- Explain about Inheritance and Polymorphism available in OOP concept.[2.5+2.5]

Group-‘C’ (Long answer questions)

Attempt all question.

[2x8=16]

- What is a computer network? Explain different types of communication modes with example of each. Differentiate between Peer-to-Peer and Client-Server network architecture. [1+3+4]

Or

Differentiate between Array and Structure. WAP to calculate sum of two numbers using user defined function. [4+4]

- Write any two uses of pointer. Write a C program that store records of 10 Books having fields as id, title, price and display all the records having price more than 1000 in appropriate format using structure. [2+6]

The End



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Group – 'A'

Rewrite the correct options of each question in your answer sheet. [9 x 1 = 9]

- With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" ends with an "a"?
 - Select * from Persons where FirstName="a"
 - Select * from Persons where FirstName Like "a%";
 - Select * from Persons where FirstName LIKE "%a";
 - Select * from Persons where FirstName="%a%"
- The key that identifies each record uniquely, is called _____.
 - Unique Key
 - Primary Key
 - Key record
 - Field name
- Which of the following is the correct syntax to display "Times Int'l College" in an alert box using JavaScript?
 - alert-box("Times Int'l College");
 - confirm("Times Int'l College ");
 - msgbox("Times Int'l College");
 - alert("Times Int'l College ");
- Which of the following keywords are used declare a variable in JavaScript?
 - int or var
 - float or let
 - var or let
 - char or var
- What is the total memory allocated by Union?
 - Sum of all
 - Highest among all
 - Lowest among all
 - None
- Which of the following is correct declaration of pointer variable?
 - int &p;
 - int *p;
 - int p*;
 - int p&;
- What is the main principle of Object-Oriented programming (OOP)?
 - Emphasis on global variables
 - Empasis on functions
 - Emphasis on data
 - Emphasis on linear execution
- Which property of OOP means same function behave differently?
 - Inheritance
 - Encapsulation
 - Polymorphism
 - Abstraction
- In which type of network architecture each node has equal authority?
 - Client-Sever
 - Peer-to-Peer
 - Decentralized
 - Centralized

Group – 'B'

(Short answer questions)

Attempt all question.

[5x5=25]

- Differentiate between centralized and distributed database system. [5]
- Define identifier and operator. Write a C program to input principal, time and rate and then find the simple interest. [1+1+3]

OR

Define recursive function. WAP in C to display the Fibonacci series up to 10th term using recursion.[1+4]

- What is a computer network? Explain the different types of networks on the basis size. [1+4]
- Define JavaScript. Differentiate between client and server-side scripting language. [1+4]

Or

Write a JavaScript program to find the greatest among three numbers using function. [5]

- Differentiate between Procedure-Oriented Programming (POP) and Object-Oriented Programming (OOP). [5]

Group – 'C'

(Long answer questions)

Attempt all question.

[2x8=16]

- What is data normalization? Explain 1NF, 2NF and 3NF with example. [2+6]

Or

Differentiate between Structure and Union. WAP in C that ask user to input the radius and then calculate the area of a circle using function. [4+4]

- Discuss about pointer with advantages. Write a C program to store information of 10 Employee (empid, name, salary) and display it using Structure in proper order. [3+5]

The End