The Times Secondary School

Dillibazar, Kathmandu

First Terminal Examination – 2076

Grade: - XII **Set – A** Full Marks:-75

Stream: Management (Morning Shift) Pass Marks:-30

Subject: - Computer Science Time : 3 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

Answer the following questions. (Any Four) [10× 4=40]

1. a) What is switch statement in c program? WAP to display the name of day on the basis of entered number 1 to 7. [5]
   b) WAP to display fibonacci series upto 10th terms. 0 1 1 2 3 5 8….. upto 10 th terms [5]
2. What is looping? Describe "for", "while", and "do while" loops with appropriate example.
3. a) What is variable? WAP to read two number a and b. Display all even number between a and b. [1+4]
   b) WAP to display Multiplication table using for loop. [5]
4. a) Write a program to read "n" numbers and to find the sum and average. [5]
   b) WAP to display your name 100 times using do – while loop. [5]
5. WAP to input the age of 20 students and count the number of students having age in between 20 to 25. [10]

Group: B

Short Answer Question

Answer the following questions.(Any seven) [7× 5=35]

6. What is information system? Explain types of information system. [1+4]
7. What is SDLC? Explain any two system development phase / stages with block diagram. [1+4]
8. Who is system analyst? Describe any four characteristics of system analyst.
9. What is prototyping? Write down its advantage and disadvantage. [1+4]
10. What is feasibility study? Why feasibility study in important in system analysis phase? Explain. [1+4]
11. What is database? List out the advantages/disadvantages of Database Management system. [1+4]
12. What do you understand by the term data integrity? Why it is important in designing a database? [1+4]
13. What is E-R diagram? Explain the advantages of E-R diagram in system design. [1+4]
14. Explain waterfall and spiral system development model. [5]
15. Write short notes: (any two)
    a.DDL b. Normalization c. Algorithm

THE END

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Group: A

Answer the following questions. (Any Four) [10× 4=40]

1. a) Explain FOR loop in c with example. [5]
   b.)WAP to find the sum, difference and product of 2 numbers using switch case statement. [5]
2. What is statement? WAP which select and prints largest among three number using "if else if" statement with flow chart. [1+9]
3. a) What is constant? WAP to read "n" number, find sum of positive and sum of negative numbers. [1+4]
   b) WAP to display factorial of a given number. [5]
4. WAP which reads salary of 25 employees and count the number of employees who age getting between 30000 to 40000. [10]
5. WAP to input "n" number and find out the greatest and smallest number. [10]

Group: B

Short Answer Question

Attempt all questions.(Any seven) [7× 5=35]

6. Who is DBA? Explain the major roles and responsibilities of DBA. [1+4]
7. What is SDLC? Write down the importance and necessity of SDLC.
8. What is waterfall model? Write down its advantage and disadvantage. [2+3]
9. Difference between centralized and distributed database. [5]
10. What is DBMS? List out the advantage / disadvantage of DBMS. [1+4]
11. What is documentation? Explain the importance of documentation in program design. [1+4]
12. What do you understand by the term data security? Why it is important in designing a database. [1+4]
13. Why system study is important in system development process? Explain [5]
14. What is normalization? Explain 1NF and 2NF with example. [1+4]
15. Write short notes: (any two): [2.5+2.5]
    a. SQL b. Decision table c. E-R diagram

THE END