Bhaktapur Municipality SEE Preparation Exam 2080

Class: 10
F.M.: 50
Subject: Opt. Computer Science
Time: 1 hr 30 min

Group "A"

Answer the following questions in one sentence:

1. What is an intranet?

2. What is cyber bullying?

3. While designing table structure which data types are suitable to store information about student's name and date of birth?

4. What is the field size of Yes/No field?

5. What is local variable?

6. Write the format specifier of basic data types of C language.

Write appropriate technical term for the following:

7. The ability to understand natural language and is capable of thinking and learning itself.

8. Buying and selling of goods through internet.

Write the full form of the following:

9. G2G

10. LIFI

Group "B"

Answer the following questions:

11. Mention differences between client/server architecture and peer-to-peer architecture of the network.

12. What is password policy? Write any two important criteria for creating a strong password.

13. What is a backup? Why is backup vital to computer security systems?

14. What is Online Payment? Write the different forms of e-payment in Nepal.

15. Define antivirus software with two examples.

16. Differentiate between database and DBMS with example.

17. What is data sorting? Write the advantages of the sorted data.

18. Write two differences between Select query and Action query.

19. List any two major differences between forms and reports.

Write the output of the given program: (Workout with a dry run)

20. Program output question with dry run (SUB SERIES).

Study the following program and answer the given questions:

21. List all the parameters used in the program given above.

22. List the variable used in the above program.

Group "C"

Convert/Calculate as per the instruction:

23. $(10111101)_2$ into Octal

24. $(4E6)_{16} = (?)_8$

25. $((10101 - 1110)_2 \times (10)_2)$

26. $(101110)_2 \div (1110)_2 = (?)_2$

Programming Questions:

27. Write a program in QBASIC that asks radius and height of a cylinder and calculate its surface area and volume. Create a user-defined FUNCTION to calculate surface area and SUB program to calculate volume.

28. A sequential data file "Salary.dat" contains the information, employee-code, employee-name, post and basic salary. Write a program to display those records whose basic salary is greater than or equal to 15000 and post is "Officer".

29. Write a program in C language to check whether the supplied number is divisible by 7 or not.

30. Write a program in C language to display the series with their sum 7, 10, 13, 16… up to 10.