PART – I

Answer any 5 questions from 1 to 7. Each carries 1 score.   (5×1=5)

1. MSD of the number 2089.05 is _____

2. Expand USB.

3. Conversion of source code into object code is called _____

4. Pick the odd one out.

   +, %, >, *

5. "default" keyword is used with _____ decision statement in C++.

6. Unwanted electrical or electro magnetic energy that lowers the quality of data signal is called _____

7. Name any one email related protocol.

PART – II

Answer any 9 questions from 8 to 19. Each carries 2 score.   (9×2=18)

8. List any four characteristics of computer.

9. Write the names of any four registers in CPU.

10. What are the major functions of an operating system ?

11. Define algorithm. List any two characteristics of algorithm.

12. Define tokens in C++. Name any two tokens.

13. Write any four fundamental data types in C++.

14. Write the syntax of variable declaration in C++.

15. What are the elements of a loop statement in C++ ?

16. Compare dial-up and mobile broadband connections.

17. Explain any two advantages of social media.

18. Explain EPS.

19. List any four e-Learning tools.

PART – III

Answer any 9 questions from 20 to 32. Each carries 3 score.   (9×3=27)

20. Find the octal and hexadecimal equivalent of number $(101010111)_2$.
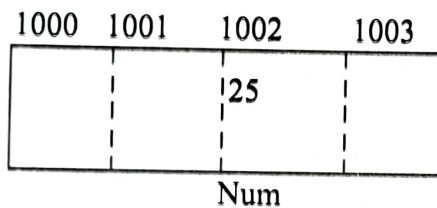
21. Explain three types of integer representations.

22. Compare RAM and ROM.

23. What is the use of documentation in a program ? List the two types of documentations.

24. Identify the type of literals from the followings.

25, 'A', "HELLO"

25. What is a variable ? Identify the name and content of variable from the following diagram.

```
1000  1001    1002     1003
┌──────┬───────┬────────┐
│      ¦      ¦25      ¦
│      ¦      ¦        ¦
└──────┴───────┴────────┘
        Num
```

26. Write the structure of C++ program.

27. Explain type conversions in C++ with suitable examples.

28. Differentiate switch and else if ladder.

29. Define data communication. List the basic elements for building data communication system.

30. Write short notes on :

    a) Switch

    b) Router

    c) Gateway

31. What are the hardware and software requirements for internet connection ?

32. What is e-Governance ? Name the types of e-Governance.

PART – IV

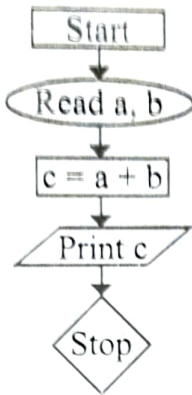**Answer any 2 questions from 33 to 36. Each carries 5 score.**   **(2×5=10)**

33. a) What is e-waste ?   **(1)**

    b) Briefly explain the e-waste disposal methods.   **(2)**

    c) List the four different approaches of green computing.   **(2)**

34. a) What is debugging ?   **(1)**

    b) List any two programming errors.   **(1)**

c) Find and correct the errors in the flow chart. (3)

35. a) Give examples for entry controlled loops. (1)

b) Compare while and do-while loop. (4)

36. a) Define Topology. (2)

b) Explain any three network topologies. (3)

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