D 52731 (Pages : 2) Name...

Reg. No...................................

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(CUCBCSS—UG)

Core Course (Computer Science)

BCS 1B 01—COMPUTER FUNDAMENTALS AND HTML

(2017 Admissions)

Time : Three Hours   Maximum : 80 Marks

Part A (Short Answer Questions)

Answer all questions.
Each question carries 1 mark.

1. What is an adapter ?

2. What are the base values for decimal, hexadecimal, octal and binary number systems ?

3. Write 4-bit BCD code for 1024_{10}.

4. What is a program planning tool ?

5. List any four output devices.

6. What is positional number system ?

7. Write the full form of ASCII.

8. What is a register ?

9. What do you mean by XHTML ?

10. Name the different types of lists used in HTML.

$(10 \times 1 = 10 \text{ marks})$

Part B (Short Paragraph Questions)

Answer all questions.
Each question carries 3 marks.

11. Differentiate hardware and software.

12. Subtract 110111_2 from 101110_2 using complementary method.

13. What is a Web Browser ?

14. Explain the table tag and its attributes.

15. Distinguish between RAM and ROM.

$(5 \times 3 = 15 \text{ marks})$

Turn over

Part C (Short Essay Questions)

Answer any **five** *questions.*
Each question carries 5 marks.

16. What is an input interface ? How it differs from output interface ?

17. Discuss the advanced features of Web Browser.

18. Convert 168.75_{10} to binary, Octal, Hexadecimal number systems.

19. What is a flowchart ? Draw the basic symbols and describe their functions.

20. Explain the following HTML tags with syntax and example.

    (a) List tags.

    (b) Frameset tag.

    (c) Text Formatting tags.

21. Explain the merits and demerits of Flowcharts.

22. Give the dual of the route $A + \bar{A} . B = A + B$.

23. Explain the attributes of frame and iframe tags.

(5 × 5 = 25 marks)

Part D (Essay Questions)

Answer any **three** *questions.*
Each question carries 10 marks.

24. Write the algorithm and draw the flowchart to find the smallest number.

25. Draw a block diagram to illustrate the basic organization of a computer and explain the functions of various units.

26. Explain the functionalities of the following :

    (a) Motherboard.

    (b) SMPS.

    (c) Add-on-cards.

    (d) Cache memory.

27. Explain any three different input and output devices in detail.

28. Write a HTML program to create an application form to open a bank account.

(3 × 10 = 30 marks)