

D 52731

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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 × 1 = 10 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 × 3 = 15 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)