

**D 73109**

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2019**

(CUCBCSS—UG)

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.*

1. What is a Language Translator ?
2. Define Cache memory.
3. What is SMPS ?
4. What is octal number system ?
5. Expand ASCII.
6. State DeMorgan's Theorem.
7. Define Algorithm.
8. What is DNS ?
9. What is the use of anchor tag ?
10. What are cascading style sheets ?

(10 × 1 = 10 marks)

**Part B (Short Paragraph Questions)**

*Answer all questions.*

11. What are the features of good programming language ?
12. What are registers ? Explain any *two* registers.
13. State any *three* laws of Boolean Algebra.
14. Define flowchart. What are the properties of flowcharts ?
15. Write an HTML program that includes basic formatting tags (heading, paragraph, break, font etc)

(5 × 3 = 15 marks)

**Turn over**

**Part C (Short Essay Questions)***Answer any five questions.*

16. Write an HTML code that will display a table of student's name, roll number and marks.
17. What are lists ? How are they created ?
18. Explain CSS ID and class.
19. Explain basic computer organization with help of a diagram.
20. Differentiate SOP and POS form of Boolean expressions.
21. Draw a flowchart to find the smallest number among three numbers.
22. Write an algorithm that checks whether a number is prime number or not.
23. Explain (a) WWW (b) W3C (c) Web browser (d) Web server (e) Web hosting.

**(5 × 5 = 25 marks)****Part D (Essay Questions)***Answer any three questions.*

24. Simplify using K map in both SOP and POS forms  $F(A, B, C, D) = \pi(3, 5, 7, 8, 10, 11, 12, 13)$ . Draw the logic diagram of simplified form.
25. Briefly explain Secondary storage devices.
26. Convert :
  - (a)  $(AD)_{16} = ( )_8$
  - (b)  $(CE)_{16} = ( )_8$
  - (c)  $(D05)_{16} = ( )_{10}$
  - (d)  $(10)_8 = ( )_{16}$
  - (e)  $(524)_8 = ( )_{16}$
  - (f)  $(6754)_8 = ( )_{10}$
27. Construct a logic circuit for the Boolean expression  $A \cdot \bar{B} + C \cdot (A + B \cdot D)$  using NAND gates only.
28. Write an html program that demonstrates a College Website.

**(3 × 10 = 30 marks)**

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