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Name.....

Reg. No.....

**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2022**

B.C.A.

BCA 1B 01—COMPUTER FUNDAMENTALS AND HTML

(2019—2022 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A*Short Answer Type Questions.**Answer **all** questions.**Each question carries 2 marks.**Ceiling 20 marks.*

1. Name any *four* input units.
2. Differentiate RAM and ROM.
3. Define an Adapter.
4. What does 11111111 mean in binary code ?
5. What is De Morgans first law in Boolean algebra ?
6. Name the different types of laws in Boolean Algebra.
7. What is a flowchart ?
8. How to check whether a number is Odd or Even ?
9. Define URL.
10. What is DNS ? Give an example.
11. Define CSS ID.
12. What are HTML Frames ?

Turn over

Section B

Short Essay Type Questions.

*Answer **all** questions.*

Each question carries 5 marks.

Ceiling 30 marks.

13. Write a short note on memory hierarchy.
14. Discuss any *five* output units in brief.
15. What is Octal number ? How is octal calculated ?
16. Minimize the following Boolean expression using Boolean identities :
$$F(A, B, C) = A'B + BC' + BC + AB'C'$$
17. Write an algorithm to check whether the entered number is prime or not.
18. Briefly explain some features of HTML5.
19. Discuss the key concepts in CSS.

Section C

Essay Type Questions.

*Answer any **one** question.*

The question carries 10 marks.

20. Explain the following :
 - (a) HTML.
 - (b) XHTML.
 - (c) DHTML.
 - (d) HTTP.
21. Simplify the given Boolean expression using Karnaugh Map :
 - (a) Find Minterm solution for :
$$Y = A'B'C'D' + A'B'CD' + A'BCD' + A'BCD + AB'C'D' + ABCD' + ABCD.$$
 - (b) Find Maxterm solution for :
$$F(A, B, C, D) = \pi(3, 5, 7, 8, 10, 11, 12, 13).$$

(1 × 10 = 10 marks)