D 32329   (Pages : 2)   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 :

   $F (A, B, C, D) = \pi (3, 5, 7, 8, 10, 11, 12, 13)$.

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