D 12607 (Pages : 2) Name...

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

FIRST SEMESTER (CBCSS–UG) DEGREE EXAMINATION NOVEMBER 2021

B.C.A.

BCA 1B 01—COMPUTER FUNDAMENTALS AND HTML

(2021 Admissions)

Time : Two Hours   Maximum : 60 Marks

Section A (Short Answers)

*Answer atleast **eight** questions.*
Each question carries 3 marks.
All questions can be attended.
Overall ceiling 24.

1. Explain language translators.

2. What are the functions of an output unit ? Explain.

3. What is input interface ? Explain with example.

4. Explain OR gate. Draw OR gate. If A,B and C has a 1 output if any of the input is one ———— 81.

5. What is Postulates ? Write all postulates.

6. What is a Gray code ?

7. What is flowchart ? Draw flowchart for find smallest number from a list of numbers.

8. What are the different CSS fonts Properties ? Explain.

9. Define URL.

10. What is the use of Formatting Tags in HTML ? Explain any two.

11. What is a Web Pages ?

12. What is class selector in CSS ? Explain.

(8 × 3 = 24 marks)

Turn over

Section B (Short Answers)

Answer atleast **five** *questions.*
Each question carries 5 marks.
All questions can be attended.
Overall ceiling 25.

13. What are registers ? List the six registers in CPU and describe the function of each.

14. List the different optical disks. Explain each with its operations.

15. What do you mean by 1's and 2's Complements ? Explain complement subtractions.

16. What is Product of Sums ? Covert $F = \prod (1, 2, 3)$ to Product of Sums.

17. What is top-down design ? Explain different characteristic of an algorithm. Write an algorithm to find quadratic equation.

18. Explain how to create text, password, button and checkbox.

19. Explain how to control fonts in CSS.

$(5 \times 5 = 25 \text{ marks})$

Section C (Essays)

Answer any **one** *question.*
The question carries 11 *marks.*

20. (a) List out the different digital codes. Explain each in detail.

    (b) Explain different Unicode encoding forms.

21. (a) Minimize four variables Boolean equation using K-map method. Explain.

    (b) Explain De Morgan's Theorem.

$(1 \times 11 = 11 \text{ marks})$