

18U137

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Name:

Reg. No.....

FIRST SEMESTER B.Sc. / BCA. DEGREE EXAMINATION, NOVEMBER 2018

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

CC17U BCS1 B01 / CC17U BCA1 B01 - COMPUTER FUNDAMENTALS AND HTML

(Computer Science & Computer Applications – Core Course)

(2017 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

1. NIC stands for _____
2. “RAM is a Volatile memory”. State whether this statement is true or false.
3. Subtract using 2’s complement $110110-10110 =$
4. 8421 codes id also called as _____
5. $X +(X.Y)=$ _____
6. Boolean algebra invented by _____
7. Diamond shaped symbol is used in flowcharts to show the _____
8. What is the extension of the html file?
9. The `<i>` tag makes text _____
10. The _____property specifies an image to use as the background of an element.

(10 x 1 = 10 Marks)

PART B

Answer *all* questions. Each question carries 2 marks.

11. What is Von Neumann model?
12. Explain the Add-on cards.
13. Convert
(a) $(110011)_2 = (\dots\dots\dots)_8$ (b) $(ADD)_{16} = (\dots\dots\dots)_2$
14. State and prove De Morgan’s laws in Boolean algebra.
15. Explain the language translator.
16. Explain the memory hierarchy.
17. Describe
(a) gray code (b) excess 3 code
18. Explain the computer language and what are the features of the good language.

(8 x 2 = 16 Marks)

PART C

Answer any *six* questions. Each question carries 4 marks.

19. What are 1's and 2's complements.
20. Explain (a) BCD (b) ASCII (c) Unicode
21. What is a flowchart? Explain with suitable examples.
22. Explain the basic structure of HTML program.
23. Write any two secondary storage devices connected to a computer.
24. What is font and image tag?
25. Explain minterm and maxterm.
26. Convert the following expression to product-of-sum form $A+A'B+A'C$
27. Create a table in following format using table tag

Roll no	Name		Marks	
	Fname	Lname	Sub1	Sub2
1	abc	def	45	39
2	ghi	jkl	42	46

(6 x 4 = 24 Marks)

PART D

Answer any *three* questions. Each question carries 10 marks.

28. Explain the postulates of Boolean algebra with examples.
29. Write an algorithm to check given no is odd/even.
30. What are the form controls? Create html page of a registration form using form controls.
31. Simplify the expression using K-map
 - a) $A'B+B'C+BCD$
 - b) $(A'+C')(B'+D)(A+B+C+D')$
32. What are the ways to apply CSS in web page? Explain important CSS text properties.

(3 x 10 = 30 Marks)
