

**B.C.A DEGREE END SEMESTER EXAMINATION NOVEMBER 2017****SEMESTER –1: BACHELOR OF COMPUTER APPLICATION****COURSE: 16U1CRBCA1: COMPUTER FUNDAMENTALS AND ORGANIZATION***(Common for Regular 2017 admission and Supplementary/Improvement 2016 admission)*

Time: Three Hours

Max. Marks: 75

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

1. What is a Workstation?
2. What is Secondary memory?
3. What is MICR?
4. What is Plotter?
5. What is the purpose of Program Counter Register?
6. What is MODEM?
7. What do you mean by Computer Virus?
8. Define WWW.
9. What do you mean by Application Software?
10. Define Intranet. (1 x 10 = 10)

**SECTION B**Answer **any Eight** questions. Each question carries 2 marks.

11. What is Data Processing?
12. Differentiate between Mainframe and Super Computer.
13. Write short notes on
  - a) MAR
  - b) MDR
14. Distinguish between Compiler and Interpreter.
15. How can we protect our computer from Computer VIRUS.
16. Draw the implementation of logical operations AND, OR and NOT with NAND gates only.
17. Convert
  - a.  $(1AC)_{16} = (\dots)_{10}$
  - b.  $(48)_{10} = (\dots)_2$
18. What is BCR and mention its uses.
19. Explain the use of Cache Memory.
20. Compare 3GL and 4GL (2 x 8 = 16)

**SECTION C**

Answer **any Five** questions. Each question carries 5 marks

21. Explain functional units of Computer with the help of block diagram.
22. Describe about any two magnetic storage devices and how the data is stored in it.
23. Distinguish between Impact and Non Impact Printers with the help of example.
24. What is an Operating System and mention its objectives.
25. Develop an Algorithm and Flowchart to find the largest among three numbers.
26. What do you mean by Word processing Package, explain in detail?
27. Describe about the operating system DOS with its features. (5 x 5 = 25)

**SECTION D**

Answer **any Two** questions. Each question carries 12 marks

28. Write notes on
  - a. Classification of Computer based on mode of use
  - b. Characteristics of Computer.
29. Which are the different types of Computer Languages? Explain the advantages and limitations of each.
30. Write notes on
  - a. Spreadsheet Package
  - b. Creation of Presentations in MS POWER POINT
31. Write in detail about the services offered in Internet. (12 x 2 = 24)

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