

C 4791

Name

Reg. No.

**SECOND YEAR B.Sc. DEGREE EXAMINATION
MAY 2010**

Part III – Computer Applications (Subsidiary)

Paper **I – FUNDAMENTALS** OF COMPUTER ORGANISATION AND PROGRAMMING IN 'C'

(2005 Admissions)

Time : Three Hours

Maximum : 50 Marks

Section A

*Answer any **six** questions.
Each question carries 3 marks.*

1. Define Cache memory.
2. Explain System bus.
3. Write a short notes on : CD-ROMS and **DVD**.
4. Discuss the functions of light pen, joystick and **trackballs**.
5. Explain Call by value and call by reference with example.
6. Compare Static and register variables in C.
7. Write C program to find average of all even numbers within a range.
8. Write a C program to print the series 8, 9, 10, 18, 19, 20, 28, 29, 30, ——— **n** ———
(6 x 3 = 18 marks)

Section B

*Answer any **four** questions.
Each question carries 8 marks.*

9. Explain with diagram simple model of computer.
10. Realize (a) an OR – AND logic network and (b) NOR network for the following Boolean function : $Y = (A + B) (C + D)$.
11. What are the various types of semiconductor memory? Discuss their merits, demerits and area of applications.
12. Write a program to sort n numbers in ascending order using function.
13. Write the general structure of the switch statement with an example.
14. Write a C program to print a number in an ordered form. (Example : input 43276, output 23467)

(4 x 8 = 32 marks)
