

Roll No. ....

Total Pages : 03

BT-I/D-21

**41013**

FUNDAMENTALS OF COMPUTERS AND  
PROGRAMMING IN C  
CSE-101E

Time : Three Hours]

[Maximum Marks : 100

**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

**Unit I**

1. (a) Define digital computers. What is the difference between a computer and human being ? **5**  
(b) Describe the following terms : **5×3=15**
  - (i) RAM
  - (ii) ROM
  - (iii) PROM
  - (iv) EPROM
  - (v) Dot matrix printers.
  
2. (a) Perform the following conversions : **5×3=15**
  - (i)  $(45215)_5 = (?)_{10}$
  - (ii)  $(1101011101.101)_2 = (?)_8$
  - (iii)  $(A65D)_{16} = (?)_8$
  - (iv)  $(58721.124)_{10} = (?)_{16}$
  - (v)  $(7645.214)_8 = (?)_{10}$

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- (b) Explain the operator precedence and associativity with a example. **8**

#### **Unit IV**

7. (a) How does structure differ from an array and union ? Write a program in C language which reads and display the name, age, designation, date of birth and salary of an employee by using structure. **12**
- (b) Write a program in C language to copy a string in to another string. **8**
8. Explain the following file functions with examples : **5×4=20**
- (a) `fell()`                      (b) `fread()`
- (c) `fseek()`                      (d) `rewind()`
- (e) `feof()`.