

2E2006

Roll No. _

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2E2006

B.Tech. II Semester (Main/ Back) Examination, June/July - 2016
Common to All Branch
206 Fundamentals of Computer Programming

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 26

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/calculated must be stated clearly.

Unit - I

1. a) Discuss Enumerated data type with the help of suitable code of 'C' language. (10)
- b) Arrange following operators in order of precedence and associativity rules of 'C'. +, %, <, /, *, =, !, ++, () (6)

OR

- a) Write a program in 'C' to read characters one by one and display it back. (8)
- b) Discuss various storage classes available in 'C' with the help of suitable example. (8)

Unit - II

Write a 'C' program to Input and display data in following structure.

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Student - name

Date - of - birth

Course

Semester

(16)

OR

2. a) Write a 'C' program to multiply two Arrays of dimension $[3 \times 4]$ and $[4 \times 2]$ (10)
b) Write short note on command line Arguments with suitable example (6)

Unit - III

3. a) Write a 'C' program to allocate memory dynamically to an Integer Array. (10)
b) Discuss predefined functions available in 'C' for file processing and handling (6)

OR

3. Write a program in 'C' to read contents from a file and display them in upper case. (16)

Unit - IV

4. a) Contrast between parameter passing in a function, 'By value' and 'By Reference'. (8)
b) How can you pass Entire Array as function Argument. Explain by Example. (8)

OR

4. a) How Array of Instances of a structure can be created and displayed. Explain by suitable example. (12)
b) Discuss void pointer and its utility in brief. (4)

Unit - V

5. Write short notes on following :
a) Types of primary memory
b) High level v/s Assembly level programming
c) Notations of Flow chart
d) Primary memory v/s secondary memory. (4×4)

OR

5. Convert following :
a) $(651.24)_8 = (?)_2$
b) $(10110001101)_2 = (?)_{10}$
c) $(9896)_{10} = (?)_{16}$
d) $(5676)_{10} = (?)_8$ (4×4)