

2E2006

Roll No. \_\_\_\_\_

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2E2006

B. Tech. II Sem. (Main / Back) Exam., May - 2017  
206 Fundamentals of Computer Programming

Time: 3 Hours

Maximum Marks: 80

Min. Passing Marks Main: 26

Min. Passing Marks Back: 24

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.

Use of following supporting material is permitted during examination.  
(Mentioned in form No. 205)

1. NIL

2. NIL

**UNIT - I**

- Q.1 (a) Describe the structure of C Program in detail. [8]  
(b) What do you understand by Precedence of operator? How it is considered in expression evaluation? [8]

**OR**

- Q.1 (a) Describe the arithmetic and logical operator available in C Language. [8]  
(b) Explain following with suitable example:  
(i) Basic Data types [2]  
(ii) Scope of variable [2]  
(iii) Type casting [2]  
(iv) Identifiers [2]

## UNIT - II

- Q.2 (a) Write a C Program to reverse an inputted integer number, e.g. if input is 2375 then output is 5732. [10]
- (b) Write syntax of switch case decision making statement. [6]

OR

- Q.2 (a) What are command line arguments? Explain with example. [6]
- (b) Write a C program to multiply two matrices. [10]

## UNIT - III

- Q.3 What do you understand by file handling? Enumerate and explain various file handling functions used in C language. [16]

OR

- Q.3 (a) What is structure? Explain. [6]
- (b) What do you understand by dynamic memory allocation? [5]
- (c) Explain typedef. [5]

## UNIT - IV

- Q.4 (a) Write a C program using function to display first n numbers of a Fibonacci series. [8]
- (b) What is function? Explain call by value and call by reference with example. [8]

OR

- Q.4 (a) Define and explain pointers in C language. [6]
- (b) What is void pointer? Discuss its uses. [5]
- (c) Discuss pointer to structure. [5]

## UNIT – V

Q.5 Explain:

- (a) Primary memory and secondary storage. [6]
- (b) Representing algorithm through flow chart [5]
- (c) Random, direct and sequential access method [5]

OR

Q.5 Convert following:

- (a)  $(123.63)_{10} = (?)_2$  [4]
- (b)  $(111.0001)_2 = (?)_{16}$  [4]
- (c)  $(A\ B2OC.00C)_{16} = (?)_{10}$  [4]
- (d)  $(1010.267)_8 = (?)_2$  [4]