

2E2006**B. Tech. II Sem. (Back) (Back) Exam., Oct.-Nov. - 2020**
206 Fundamentals of Computer Programming**Time: 2 Hours****Maximum Marks: 48**
Min. Passing Marks: 15*Instructions to Candidates:*

Attempt any three questions, selecting one question from any three 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. NIL2. 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) 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

- Q.2 (a) Write a 'C' program to reverse an inputted integer number, e.g. if input is 5827 then output is 7285. [8]
(b) Write syntax of switch case decision making statement. [8]

OR

- Q.2 (a) Write a 'C' program to multiply two matrices. [8]
(b) What are command line arguments? Explain with example. [8]

UNIT-III

- Q.3 (a) Explain Array of structure with the help of a suitable program also describe structure within structure with an example. [8]
- (b) Write a program which explain pointers in one dimensional array. [8]

OR

- Q.3 (a) With the help of a program, explain pointer as function parameters. [8]
- (b) Explain file handling functions in 'C'. [8]

UNIT- IV

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

OR

- Q.4 (a) Define and explain pointers in 'C' language. [8]
- (b) What is void pointer? Discuss its uses. [8]

UNIT- V

- Q.5 (a) Give classification for the types of language working in computer programming environment. [8]
- (b) Write short notes on -
- (i) Pseudocode [4]
- (ii) Flow chart and algorithms [4]

OR

- Q.5 Correct the following number from one system to another - [4×4=16]
- (a) $(127.56)_{10} = (?)_2$
- (b) $(11011011011)_2 = (?)_{16}$
- (c) $(5546)_8 = (?)_2$
- (d) $(7856)_{10} = (?)_8$

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