

2E2006

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

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. 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) 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)  $(5546)_8 = (?)_{10}$   
(d)  $(7856)_{10} = (?)_8$

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