

BT-2/JX

8271

Fundamentals of Computer and Programming in C

Paper : CSE-101E

Time : Three Hours]

[Maximum Marks : 100

Note :- Attempt **FIVE** questions, selecting at least **ONE** question from each Unit.

UNIT-I

1. (a) Draw the block diagram of Simple Computer and explain the function of each block. 10
- (b) Explain the classification of computers, in detail, on the basis of speed and memory. 10
2. (a) What are the services provided by operating system ? Explain each one. 10
- (b) Illustrate the features of DOS and UNIX. 10

UNIT-II

3. (a) Compare and contrast the feature of m/c. Assembly the HLL. 10
- (b) Draw and explain the flow chart to solve quadratic equation. 10
4. (a) Write a technical note on the working of Internet. 10
- (b) Explain the protocol FTP. 10

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UNIT-III

5. (a) Write a program in C to find sum of series

$$S = 2 - \frac{2}{3} + \frac{2}{5} - \frac{2}{7} + \dots + \frac{2}{n}, \text{ where } n \text{ is always odd.} \quad 15$$

- (b) Write a note on formatted I/O. 5

6. (a) Write a program to reverse a given number. 10

- (b) Explain recursive function by taking suitable example. 10

UNIT-IV

7. (a) Write a 'C' program using function to compare two strings. Also draw the flowchart. 15

- (b) Explain Enumeration data type. 5

8. (a) Write a technical note on error handling. 10

- (b) Enumerate the difference between

(i) structure and union

(ii) enum and typedef

(iii) enum and # define

(iv) union and enum. 10