

24006

**B.Tech. (Common for All Branches) Ist Semester
(Common with Special chance) F Scheme
Examination, December-2019**

**FUNDAMENTALS OF COMPUTERS &
PROGRAMMING IN 'C'**

Paper-CSE-101-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Students are required to attempt any five questions selecting at least one question from each section..

Question No. 1 is compulsory.

1. Write short notes on following : 20
- (a) Memory organization
 - (b) Input output ports
 - (c) Use of Header file in C
 - (d) Difference between logical AND and bitwise AND
 - (e) Call by value & Call by Reference

Section-A

2. (a) Discuss different generations of microprocessors. 10
- (b) Explain classification of computers. 10
3. Explain in detail about multiprogramming, multiprocessing, timesharing and real time operating systems. 20

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Section-B

4. (a) Discuss different categories of language translators. Explain their functions briefly. 10
(b) Write short notes on Loader and Linker. 10
5. What do you understand by topology ? Explain different network topologies with the help of suitable diagrams. 20

Section-C

6. What is difference between entry controlled and exit controlled loops ? Explain with the help of suitable examples. Discuss use of switch case statement. 20
7. (a) Differentiate between structure and union with suitable examples. 10
(b) Write short notes on Nested structure. 10

Section-D

8. (a) What are pointers to functions ? Explain with an example. 10
(b) Write a C program to swap two numbers using call by reference. 10
9. (a) Write short notes on malloc() and calloc() functions. 10

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- (b) Write a C program to store roll number, name and marks in 5 subjects in a file. Read the contents of file and display roll number, name and total marks obtained by each student in the class.

10

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