

FYBSC IT/SEM I/REG/Programming with C

Time: 1 hr.

Marks:30

- Note:
1. All questions are compulsory.
 2. Draw neat diagrams wherever necessary.
 3. Figures to the right indicate full marks.

Q.1 Answer the following. [15]

- (a) What is a flowchart and why is it used? List and explain the basic symbols used in flowcharts. 08
- (b) Define the algorithm for calculating the factorial of a non-negative integer. Draw the flowchart for the same, 07

OR

- (a) List the basic data types in C and provide a brief description of each. 08
- (b) What are the steps involved in writing and executing a C program? 07

Q.2 Answer the following. [15]

- (a) What is the purpose of the if-else and switch statement in C programming? Explain with suitable example. 08
- (b) What is the purpose of a while and for loop in C programming? Explain with an example. 07

OR

- (a) Explain any four string functions used in C, 08
- (b) What is a union in C? Provide a suitable programming example. 07

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