

Roll No.

(011/17-I)

5155

B.A./B.Sc. EXAMINATION

(First Semester)

**COMPUTER SCIENCE : COMPUTER
FUNDAMENTAL & PROGRAMMING IN C**

First Paper

Time : Three Hours Maximum Marks : $\begin{cases} \text{B.Sc.: 30} \\ \text{B.A. : 20} \end{cases}$

Note : Q. No. 1 will be compulsory. Attempt *Five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

1. Explain the following :

- (a) Flowcharting
- (b) Arithmetic Expressions
- (c) Decision Making
- (d) Symbolic Constant

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- (e) Prototype
- (f) Switch statement.

Unit I

2. What is Computer ? Explain its characteristics.
Also explain the concept of classification of computer in detail.
3. Explain the following in details :
 - (a) Types of errors in programming
 - (b) Techniques of problem solving.

Unit II

4. What is Data type ? Explain the data types used in C language.
5. Explain the following in detail :
 - (a) Identifiers and Keywords
 - (b) Constants and Variables.

Unit III

6. Explain the concept of do-while loops, for loop and while loop in decision-making and looping.
7. Explain the following with example :
 - (a) ELSE-IF Ladder
 - (b) goto statement.

Unit IV

8. What do you mean by Functions ? Also explain the concept of prototype and passing parameters in functions.
9. Explain the following :
 - (a) Arrays
 - (b) Storage classes in C.