

FE-118

February-2025

B.C.A., Sem.-I (NEP)

DSC-C-BCA-111T : Elements of Programming and Computer Organization

Time : 2:00 Hours]

[Max. Marks : 50

1. List the different types of Programming Languages in detail. Write/Draw an Algorithm/Flowchart to get reverse number from the enter number. 10

OR

1. Write down basic structure of C and explain C tokens in detail. 10
2. Describe if statement with all its types in detail. 10

OR

2. Explain any one loop in detail. 10
3. What is function ? Explain in detail. 10

OR

3. What is structure ? How can we access structure variable? Differentiate Structure vs. Union. 10

4. List different Types of Gates. Explain only Universal Gates with Truth table and Logical diagram. 10

OR

4. Explain JK Flip-Flop with Truth-table and Logical Diagram in detail. 10

5. Answer the following Questions : (Any 10) 10

- (1) Define break statement.
- (2) Explain conditional operator.
- (3) Define goto statement.
- (4) Define Typecasting.
- (5) Which symbol used for condition in flowchart ?
- (6) Explain ++ and – operator.
- (7) What is the use of strlen() ?
- (8) What is the use of ‘.’ in structure ?
- (9) Describe comments in C.
- (10) _____ is use to do addition of single bit.
 (A) Full Addder (B) Multiplexer
 (C) Half Addder (D) Encoder
- (11) _____ Flip-Flop is going to store Single Bit data.
 (A) D Flip-Flop (B) T Flip-Flop
 (C) Both (A) and (B) (D) None of these
- (12) _____ is used to Select Single input from ‘n’ Inputs.
 (A) Encoder (B) Decoder
 (C) Multiplexer (D) Demultiplexer