

B.Sc.- III (CBCS Pattern) Sem-V
USELT10 - DSE-1B- Electronics Paper-II : C-Programming-I

P. Pages : 2

Time : Three Hours



GUG/W/22/13110

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labelled diagram wherever necessary.

Either :

1. a) Explain the concept of algorithm with example. What is flowchart? Explain the various symbols of flowchart. **5+5**

OR

- b) What are variables? State the rules for defining variables in 'C' language. Explain C tokens with suitable example. **5+5**

Either :

2. a) What is operator? Explain relational and logical operator with an example. Explain the 'sizeof' operator with suitable example. **5+5**

OR

- b) State the rules for evaluation of expression. Explain the precedence of arithmetic operator with suitable example. **4+6**

Either :

3. a) Explain the formatted input with suitable example. Explain the structure of if statement with flowchart. **6+4**

OR

- b) Differentiate between 'if' statement and 'if-else' statement. Write a C program to print the largest of three numbers using nested if-else statement. **4+6**

Either :

4. a) State and explain for do-while loop. Why does it differ from while loop. Write C-program to print even number from 2 to 20 using while loop. **3+2+5**

OR

- b) Explain the structure of DO statement with suitable example. State the syntax for 'for loop'. Write a C program using for loop to print the 'power of 2' table for the power 0 to 10. **4+2+4**

5. Attempt **any ten** of the following.

1x10

- a) What is compiler?
- b) State the various types of languages.
- c) What is constant?
- d) State bitwise operator?
- e) What is special operator?
- f) What is library function?
- g) What is loop?
- h) What is ternary operator?
- i) What is the function of 'break' statement.
- j) State advantages of 'for' loop.
- k) Change the following 'for' loop to 'while' loop
for(m=1; m<10; m = m+1)
 print(m);
- l) What is the use of 'continue' statement?
