

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

P. Pages : 2

Time : Three Hours



**GUG/W/23/13110**

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Use either ANSI 'C' OR Turbo 'C' for program writing.

1. a) What is a flowchart? Explain the different symbols of flowchart with a diagram. **6**  
b) Differentiate between high-level and low-level languages. **4**

**OR**

- c) Give the classification of constant in C and explain it. **5**  
d) List the different primary data types supported by 'C' language. Explain any one of them. **5**
2. a) What is an operator? Explain the arithmetic operator in C. **6**  
b) Explain assignment operator with suitable example. **4**

**OR**

- c) Explain the precedence of the arithmetic operator with a suitable example. **6**  
d) State the rules for the evaluation of expression. **4**
3. a) Explain the use of *getchar* and *putchar* functions in C with examples. **3**  
b) Explain simple if statement and write a C program for students results, Students will be passed if students get more than or equal to 40 percent marks. **7**

**OR**

- c) Discuss the switch statement with a suitable example. Write a program in 'C' to find whether the entered number is odd or even.
- d) Explain the GOTO statement with suitable examples.
4. a) What is looping? Explain the loop control structure in C. **5**  
b) Explain the while loop with examples. **5**

**OR**

- c) Explain the break and continue statement. **4**  
d) Explain the structure of "for" loop. **6**  
Write a C program using *for* loop for the addition of 1 to 10 numbers.

5. Attempt **any ten** of the followings:

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- a) What is an assembler?
- b) What is a compiler?
- c) What is variables in C?
- d) What is the meaning of ++m?
- e) State any two conditional operators with meaning.
- f) What is the bitwise operator?
- g) What is formatted input?
- h) What is the use of *scanf*?
- i) Draw the structure of if-else statement.
- j) Differentiate between while and do-while statement.
- k) What is nested loop?
- l) Sate the advantages of *for* loop.

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