

B.Sc.3517-I : Electronics Paper-II (Elective-I) : (C-programming-I)

P. Pages : 1

GUG/W/16/3363

Time : Three Hours



Max. Marks : 50

- Notes : 1. All questions are compulsory and carry equal marks.
2. Use either ANSIC or TURBOC for program writing.

Either.

1. a) What is variable? Explain the syntax of variable declaration with suitable example. **10**
Write a C program to convert the temperature in Celsius into Fahrenheit.

OR

- b) Explain machine level and high level language. Give their advantages and disadvantages. **10**
Define
i) Keywords ii) Token

Either.

2. a) Explain ternary operator. Write a C program to find largest between two number using ternary operator. **10**
Explain hierarchy of operation with Example.

OR

- b) What is Expression? **10**
Explain the evaluation of expression of $x = a - b/3 + c * 2 - 1$
What is the difference between the two operator "=" and "=="?
Explain any two bitwise operator with suitable example.

Either.

3. a) Explain formatted output with suitable example in C. **10**
Write a C program to find largest between three numbers using nested if ----- else statement.

OR

- b) Explain the function of 'goto' statement why is the use of 'goto' statement generally avoided in 'C' language? **10**
Explain the ternary operator in C with suitable example.

Either.

4. a) Explain the structure of 'for' loop. **10**
Write a C program to print the "Power of 2" table for the power 0 to 5 i.e. $p = 2^n$, using for loop.
Compare the for and while loop.

OR

- b) Explain the basic format of 'While' statement with suitable example. **10**
Write a C program for addition of 1 to 10 number using while loop.
Differentiate while and do while statement.

5. a) Differentiate the interpreter and compiler. **2½**
b) Explain the precedence of operator. **2½**
c) Explain scanf and print f statement. **2½**
d) State the function of break and continue statement in C. **2½**
