

- Q.31 Write a short note on Matlab. PLCs.  
 Q.32 Differentiate between break and continue statement.  
 Q.33 What is meant by switch case. What is its purpose.  
 Q.34 Write the differences between data types and information.  
 Q.35 Write a short note on following:  
     a. Field   b. Record   c. Table

### **SECTION-D**

- Note:** Long Answer type question. Attempt any two questions. (2x10=20)
- Q.36 Write a program in C to find the smallest of three numbers.  
 Q.37 What are loop constructs. Discuss various loop constructs used in C with example.  
 Q.38 What is the need of information storage and retrieval.

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4th Sem / **Branch :** I & C  
**Subject :** Comp. Prog. & Applications

**Time : 3 Hrs.**

**M.M. : 100**

### **SECTION-A**

**Note :** Multiple choice questions. All questions are compulsory. (10x1=10)

- Q.1 Each statement in a C program should end with?  
     a) Semicolon ;      b) Colon :  
     c) Period . (Dot symbol) d) None of the above
- Q.2 Which of these is NOT a relational or logical operator?  
     a) =                          b) !=  
     C) ==                          d) !==
- Q.3 Find an integer constant  
     a) 3.145                      b) 34  
     c) “125”                      d) None of the above
- Q.4 Which one is the type of operator used in C language  
     a) Logical operator      b) Increment operator  
     c) Relational operator    d) All of above
- Q.5 Number of Keywords present in C language are.  
     a) 32                           b) 34  
     c) 62                           d) 64

- Q.6 Find the correct C keyword below  
 a) work                  b) case  
 c) breaker              d) permanent
- Q.7 C program is a combination of?  
 a) Statements            b) Functions  
 c) Variables            d) All of the above
- Q.8 Which one of the following is a loop construct that will always be executed once?  
 a) for                    b) while  
 c) switch                d) do while
- Q.9 We cannot use the keyword ‘break’ simply within \_\_\_\_\_  
 a) while                b) for  
 c) if-else              d) do-while
- Q.10 C is which level language?  
 a) Low level            b) High level  
 c) Low + High           d) None

### **SECTION-B**

**Note :** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is meant by function prototype.
- Q.12 Write down the difference between & and \* operator.
- Q.13 Name the loop that executes at least once.
- Q.14 Differentiate between break and exit.

- Q.15 Name any one relational operator.
- Q.16 Write one example of arithmetic operator.
- Q.17 An entire array is always passed by \_\_\_\_\_ to a called function.
- Q.18 How variable is different from constant.
- Q.19 What is the difference between operator and operand.
- Q.20 Expand PLC.

### **SECTION-C**

- Note :** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Differentiate between actual and formal arguments.
- Q.22 What is the purpose of putchar function.
- Q.23 Discuss the concept of nesting of loop with an example.
- Q.24 Define function. Mention its uses while writing a program.
- Q.25 Write a short note on call by value.
- Q.26 How does a structure differ from an array.
- Q.27 How function declaration is different from function definition.
- Q.28 Describe with example the Nested-if statement.
- Q.29 Write a program to find factorial of numbers.
- Q.30 What is meant by single dimensional array? How is it declared and initialized.