

- Q.27 What is variable? What are the Rules for defining variables?
- Q.28 Differentiate between Break & Continue statement?
- Q.29 What do you mean by user defined functions? How they are different from built-in functions.
- Q.30 Differentiate between structure and union?
- Q.31 What is array & how to declare Array?
- Q.32 Write a program to calculate simple interest in C language.
- Q.33 What is switch statement? Also write the syntax of switch statement.
- Q.34 What are the various software used in the field of Electronics Engineering.
- Q.35 Differentiate between printf() & scanf()

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What is Program ? Explains the various steps involved in development of a program.
- Q.37 What is Operator ? Briefly explain the various operators used in C language.
- Q.38 What is looping ? Briefly explain the various kinds of loop controls available in C language.

No. of Printed Pages : 4
Roll No.

202435/120935/30935
/106726/31333

3rd Sem / Mechatronics Subject:- Computer Programming & Application

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 C is a _____ language
a) Machine Level Language
b) High Level Language
c) Assembly Language
d) All above
- Q.2 The pictorial representation of an algorithm is called
a) Algorithm b) Program
c) Flow chart d) Code
- Q.3 PDLC stands for _____
a) Program debugging life code
b) Program Development Life Cycle
c) Progress Development Life Chain
d) None of the above
- Q.4 C languages uses the _____ to convert the code into machine language.
a) Compiler
b) Interpreter
c) Both compiler and interpreter
d) None of the above
- Q.5 Variables in the C program can't start with _____?

- a) Special character except for the underscore
 - b) Numbers
 - c) Both a & b
 - d) None of the above
- Q.6 Which loop runs at least one time during the execution of the program?
- a) For loop b) While loop
 - c) do-while loop d) All of the above
- Q.7 >, < are an example of _____ operator
- a) Arithmetic Operator b) Relational Operator
 - c) Logical Operator d) None of the above
- Q.8 Number of Keywords present in C Language are?
- a) 32 b) 34
 - c) 62 d) 64
- Q.9 Break statement is used for _____
- a) To bring the program control out of the loop.
 - b) To continue the loop
 - c) To bring the control at the beginning of loop
 - d) None of the above
- Q.10 Full form of PSPICE is
- a) Personal Simulation Program with integrated Circuit Emphasis.
 - b) Personal Simulation Program with intelligent Circle Emphasis
 - c) Program Structure with intelligent Circuit Emphasis
 - d) None of the above

SECTION-B

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

- Q.11 Define Algorithm
- Q.12 C statement is terminated with : symbol (True/False)
- Q.13 Define Compiler?
- Q.14 Differentiate between = and == symbols in C programming?
- Q.15 Write any two Decision making statements.
- Q.16 goto is a jump statement (True/False)
- Q.17 What is Array?
- Q.18 What is Pointer in C?
- Q.19 _____ keyword is used to declare structure in c language.
- Q.20 Define Circuit Maker?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Create basic structure of C program.
- Q.22 What is Flow chart? Define symbol used in Flow chart.
- Q.23 Differentiate between High Level Language & Machine Level Language?
- Q.24 What is translator? Where the assembler is used
- Q.25 What are the features of C language?
- Q.26 What is Conditional Statements? Define if else statement?