

- Q.26 What is data type? What are the data types in C language?
- Q.27 What is the difference between while & do while statement?
- Q.28 What is variable? What are the Rules for defining variables.
- Q.29 Differentiate between Break & Continue statement?
- Q.30 What is function ? Define recursion.
- Q.31 What is Structure? How it is different from Array?
- Q.32 What are the relational operators in C?
- Q.33 Write a C Program to Find Largest of Two Numbers
- Q.34 What is switch statement? Also write the syntax of switch statement
- Q.35 What are the various software's used in the field of Electronics Engineering?

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What do you mean by Program? Briefly explains the various steps involved in development of a program?
- Q.37 What is array? Explain the declaration and initialization of one dimensional and two dimensional array with an example?
- Q.38 Draw the basic structure of C program & explain it's all the section in briefly?

No. of Printed Pages : 4  
Roll No. ....

202435/120935/030935  
/106726/031333

### 3rd Sem / Mechtronics Subject:- Computer Programming and Applications

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Program is a set of \_\_\_\_\_  
a) Another program      b) Software  
c) Instructions          d) All above
- Q.2 The pictorial representation of a 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 Arithmetic operator % in C Language is used?  
a) For addition            b) For remainder  
c) For Subtraction        d) For division
- Q.5 Which of the following is not a valid C variable name?  
a) int number;            b) float rate;  
c) int variable\_count;   d) int \$main;

- Q.6 What is an example of iteration in C?
- a) for loop                      b) while loop
  - c) do-while loop              d) all above
- Q.7 && (logical AND) returns \_\_\_\_\_
- a) It returns true when at-least one of the condition is true
  - b) It returns true when both conditions are true
  - c) It return true when both condition are false
  - d) All of the above
- Q.8 Number of Keywords present in C Language are?
- a) 32                              b) 34
  - c) 62                              d) 64
- Q.9 Continue statement is used for \_\_\_\_\_
- a) To bring the program control out of the loop
  - b) To continue the loop
  - c) To bring the program control to the beginning of the loop
  - d) None of the above
- Q.10 Full form of PSPICE is \_\_\_\_\_
- a) Personal Simulation Program with Integrated Circuit
  - b) Personal Simulation Program with Intelligent Circle
  - c) Program Structure with intelligent Circuit
  - d) None of the above

(2) 202435/120935/030935  
/106726/031333

## SECTION-B

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

- Q.11 Define Flowchart
- Q.12 C statement is terminated with; symbol (True/False)
- Q.13 Define Assembler?
- Q.14 Differentiate between > and < Operator in C programming?
- Q.15 Write any two Decision making statements?
- Q.16 Break is a jump statement (True/False)
- Q.17 What is Array?
- Q.18 Differentiate between Variable & Constant?
- Q.19 What is 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 What is an algorithm ? What are the advantages of algorithm?
- Q.22 Differentiate between High Level Language & Machine Level Language?
- Q.23 What is translator? Where compiler is used?
- Q.24 What are the features of C language?
- Q.25 What is the purpose of a header file? Is the use of a header file absolutely necessary?

(3) 202435/120935/030935  
/106726/031333