

- 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?

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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

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?