Roll No. ....

3rd Sem / Comp. Mechatronics
Subject:- Programming in 'C'

Time : 3Hrs.   M.M. : 100

SECTION-A

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

Q.1 Which is valid C expression?

 a) int my_num = 100,000;

 b) int my_num = 100000;

 c) int my num = 1000;

 d) int $my_num = 10000;

Q.2 Which of the following cannot be a variable name in C?

 a) volatile   b) true

 c) friend   d) export

Q.3 Where in C the order of precedence of operators do not exist?

 a) Within conditional statements, if, else

 b) Within while, do-while

 c) Within a macro definition

 d) None of the mentioned

Q.4 In which year C was developed?

 a) 1972   b) 1981

 c) 1992   d) 1995

Q.5 Functions can return enumeration constants in C?

 a) true

 b) false

 c) depends of the compiler

 d) depends on the standard

Q.6 User defined data type can be derived by

 a) Struct   b) Enum

 c) typedef   d) All of the above

Q.7 What is an example of interation in C?

 a) for   b) while

 c) do-while   d) all of the mentioned

Q.8 Which of the following are C preprocessors?

 a) #ifdef   b) #define

 c) #endif   d) all of the mentioned

Q.9 Which of the following return-type cannot be used for a function in C?

 a) char*   b) struct

 c) void   d) none of the mentioned

Q.10 C programs are converted into machine language with the help of

 a) An Editor   b) A Compiler

 c) An operating system d) None of the above

SECTION-B

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

Q.11 _____ is pictorial representation of algorithm.

Q.12 Which function is used to concatenate two strings?

Q.13 Binary operator has _____ operands.

Q.14 For Loop is used for iteration. (True/False)

Q.15 Define continue statement.

Q.16 How structure elements are stored in memory?

Q.17 How do you declare a variable?

Q.18 If - else statement is used for decision making (True/False)

Q.19 What is pointer to pointer?

Q.20 How many times can a function be called?

SECTION-C

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

Q.21 Discuss various steps involved in development of a program.

Q.22 What is pointer variable? How to declare pointers in C?

Q.23 How structure and union are different from each other?

Q.24 Explain logical operators in C.

Q.25 How many types of functions are used in C. Explain in brief.

Q.26 Explain switch statements with syntax and example.

Q.27 Write a program in C to print first ten even numbers.

Q.28 Explain strlen() function by giving suitable example.

Q.29 Explain formatted output function.

Q.30 Discuss various basic data types available in C.

Q.31 What do you mean by local & global variables.

Q.32 How to initialize structure members?

Q.33 Write note on

a) Program debugging b) Data type Casting

Q.34 Write any five benefits of using pointer.

Q.35 Why do we use structure? How a structure is declared.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Define function. Explain its type with example.

Q.37 What do you mean by array? What are its types? Explain with syntax and example.

Q.38 Discuss all types of looping statements available in C.