

## **Section A (20 Marks)**

### **Question One**

**1.** Who is the father of C language?

- a) Steve Jobs
- b) James Gosling
- c) Dennis Ritchie
- d) Rasmus Lerdorf

**2.** Which of the following is not a valid C variable name?

- a) int number;
- b) float rate;
- c) int variable\_count;
- d) int \$main;

**3.** All keywords in C are in \_\_\_\_\_

- a) LowerCase letters
- b) UpperCase letters
- c) CamelCase letters
- d) None of the mentioned

**4.** Which of the following is true for variable names in C?

- a) They can contain alphanumeric characters as well as special characters
- b) It is not an error to declare a variable to be one of the keywords (like goto, static)
- c) Variable names cannot start with a digit
- d) Variable can be of any length

**5.** 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;

**6.** What is #include <stdio.h>?

- a) Preprocessor directive
- b) Inclusion directive
- c) File inclusion directive
- d) None of the mentioned

**7.** Which of the following is not an operator in C?

- a) ,
- b) sizeof()
- c) ~
- d) None of the mentioned

**8.** scanf() is a predefined function in \_\_\_\_\_ header file.

- a) stdlib. h
- b) ctype. h
- c) stdio. h
- d) stdarg. H

**9.** What is an example of iteration in C?

- a) for
- b) while
- c) do-while
- d) all of the mentioned

**10.** The C-preprocessors are specified with \_\_\_\_\_ symbol.

- a) #
- b) \$
- c) " "
- d) &

## Section B (60 Marks)

### Question Two

- a) List **three** types of errors in C programming.
- b) The code below has got fifteen errors. Identify and rectify them.

```
#include<math>
#include <studio.h>

int main
int a = = 21;
b = 10;
int c
if(a = b)
printf("Line 1 – a is equal to b\n");
eles
printf("Line 1 – a is not equal to b\n");
IF (a<b)
printf("Line 2 – a is less than b\n");
else
printf("Line 2 – a is not less than b\n");
if(a=>b)
printf("Line 3 – a is greater than b\n");
else
printf(Line 3 – a is not greater than b\n);
printf(BYE");
Return (0);
}
```

### Question Three

- a) Define the following terms as used in C programming and give examples of each;
  - i) Comments
  - ii) Arithmetic operators
  - iii) Assignment operators
  - iv) Logical operators
  - v) Relational operators
- b) Write a C program called **decision** that accepts an exam mark and prints “passed” if the mark is above 49 or prints “failed” if the mark is below 50.

### Question Four

- a) Write the syntax for writing the following selection structures using C programming’
  - i) if-else
  - ii) if-else if-else
  - iii) switch-case
  - iv) for loop
  - v) while loop
  - vi) do-while loop

- b) Study the table below and develop a C code that prompts a user to enter sales made per day, then let the program calculate and display the commission of the sales agent.(Use Code Blocks)

Sales	Commission
200000 and above	50000
150000	40000
100000	30000
80000	20000
50000	10000
Less than 50000	5000