

- ii) What is the output of the following statement `printf ("% d\n", 12,345, 678)?`
 A) 12 B) 12 C) 12,345 D) 12,345, 678
- iii) An expression with only one operand but not any operator is called _____
 A) Primary B) Ternary C) unary D) Binary
- iv) If $i = 3$, $j = 4$, what is the value of $j + 1 / i - 1$.
 A) 2 B) 1 C) 4 D) 3
- b. Simplify the expression $a + = b * = C - = 5$, where $a = 1$, $b = 3$, $c = 7$. (04 Marks)
- c. Write a C program to find the area of a triangle given the 3 sides. (06 Marks)
- d. Explain the increment and decrement operator with program. (06 Marks)

PART – B

- 5 a. Choose the correct answers for the following : (04 Marks)
- i) Which of the following header file is used if we use `floor ()` function :
 A) `stdio.h` B) `conio.h` C) `math.h` D) `stdlib.h`
- ii) Which element of user defined function is not terminated by semicolon (;)
 A) function prototype B) function definition
 C) function call D) function declaration
- iii) Pass by value is also called as _____
 A) call by value B) call by reference
 C) function call D) function declaration
- iv) _____ type of variable is accessible through out the program
 A) local variable B) global variable
 C) static variable D) register variable
- b. Explain briefly the different methods of passing parameter. (10 Marks)
- c. Write a C program to compute cube of a given number using functions. (06 Marks)
- 6 a. Choose the correct answers for the following : (04 Marks)
- i) The complement of `<` is _____
 A) `> =` B) `< =` C) `>` D) `==`
- ii) What is the output of the following program segment
- ```
include(stdio.h)
Void main ()
{
 int i = 10 ;
 while (0)
 {
 Printf ("%d", i);
 }
}
```
- A) 0                      B) 10  
 C) No output                      D) 0 is displayed  $\infty$  times
- iii) Which of the following is valid :  
 A) Case 4 :                      B) Case "4" :                      C) Case  $i + 2$  :                      D) Case 'choice' :
- iv) Which of the following loop is used when we do not know exactly how many times a set of statements have to be repeatedly executed.  
 A) for                      B) while                      C) do while                      D) switch
- b. Write a C program to find the roots of quadratic equation. (08 Marks)
- c. Differentiate between while and do while loop with example. (08 Marks)

- 7 a. Choose the correct answers for the following : (04 Marks)
- i) Array always starts from index \_\_\_\_\_  
 A) 1                      B) -1                      C) 0                      D) 2
  - ii) Linear search is also called as \_\_\_\_\_  
 A) Binary search                      B) Sequential search  
 C) Traversal                      D) Sort
  - iii) The string "0" occupies \_\_\_\_\_ bytes  
 A) 2 byte                      B) 1 byte                      C) 4 byte                      D) 8 byte
  - iv) In a variable length string, string always ends with a delimiter  
 A) POS                      B) POS - 1                      C) NULL                      D) NULL + 1
- b. Explain briefly the declaration and initialization of one dimensional array. (08 Marks)
- c. Write a C program to count vowels and constants in a given string. (08 Marks)
- 8 a. Choose the correct answers for the following : (04 Marks)
- i) SET 1 stands for  
 A) Search for extra terrestrial intelligence  
 B) Search for extra topology intelligence  
 C) Search for extraordinary terrestrial intelligence  
 D) Search for extra typical intelligence
  - ii) The concept of sharing of memory by various threads in program is called \_\_\_\_\_  
 A) sharing memory                      B) shared memory  
 C) sequential memory                      D) sorting memory
  - iii) Which of the following directive is not used during synchronization of tasks  
 A) barrier directive                      B) include directive  
 C) ordered directive                      D) flush directive
  - iv) Which of the function returns non zero value if dynamic adjustment is enable  
 A) void Omp – get – dynamic (int dynamic \_ thread)  
 B) int Omp – get – dynamic ( )  
 C) void Omp – get – nested (int nested)  
 D) int Omp – get – nested ( )
- b. What is Thread? Explain the logical memory model of a thread. (10 Marks)
- c. What are the various motivating factors of Parallel programs? (06 Marks)

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