



**KT-1663**

Seat No. \_\_\_\_\_

**M. Sc. (Sem. I) Examination**

**November / December - 2017**

**Mathematics - SSB - I**

**(Introduction to Computer "C" Language)**

Time : Hours]

[Total Marks : 50

- 1 Attempt any two of the following :
  - (a) Explain : (i) Increment and Decrement  
(ii) Logical operator.
  - (b) Explain various operators in C.
  - (c) What is a function calls? Explain with example.
  
- 2 Attempt any two of the following.
  - (a) What is the different between for loop and while loop.
  - (b) Draw flow chart with explain the else....if ladder.
  - (c) Explain "Switch" statement with example.
  
- 3 Attempt any two of the following :
  - (a) What is a Dynamic array? How is it created?
  - (b) Write a C-Program to check input string is palindrome or not.
  - (c) Explain string handling functions with example.

4 Attempt any two of the following :

- (a) What is the user define function? Distinguish between Automatic and Static variables.
- (b) Explain Jumps in loops.
- (c) Identify syntax errors in the following program. After corrections, what would be the output when the program is executed ?

```
#define PI 3.14159
```

```
Main( )
```

```
{
```

```
    Int R,C;
```

```
    float perimeter;
```

```
    float area;
```

```
    C=PI
```

```
    R=5;
```

```
    Perimeter=2.0*C*R;
```

```
    Area=C*R*R;
```

```
    printf("%f,%d",&perimeter, &area)
```

```
    }.
```

5 Attempt any five of the following :

- (a) The global variable is also known as \_\_\_\_\_ variable.
- (b) A for loop with the no test condition is known as \_\_\_\_\_ loop.
- (c) \_\_\_\_\_ is the process of arranging the elements of an array in order.

- (d) By default, \_\_\_\_\_ is the return type of a C function.
  - (e) An array can be initialized either at compile time or at \_\_\_\_\_.
  - (f) The parameters used in a function call are called \_\_\_\_\_ parameter.
  - (g) The \_\_\_\_\_ statement when executed in a switch statement causes immediate exit from the structure.
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