

MARKING SCHEME

COMP. SC. - 2018

Q1.

a) 1 mark for explanation and 1 mark for example.

b) <ctype.h> <stdio.h>

0.5 marks for each header file.

c)

```
void check(int x[], int n)
{ int i,j,temp,pos,s;
for(i=0;i<n;i++)
{   s=x[i];
    pos=i;
    for(j=i+1;j<n;j++)
    {   if(s>x[j])
        {   s=x[j];
            pos=j;
        }
    }
    temp=x[i];
    x[i]=x[ pos];
    x[ pos]=temp;
}
}
```

1 mark for correction

1 mark for suggestion

d) option a and c. Min. Value of n is 0 and max. Value is 3 as i value will be 4 after loop.

1 mark for option.

1 mark for justification.

e)

B#0

F#2

J#2

1 mark for each line of correct answer.

f) 10,30,20

0.5 marks for 10, 1 mark for 30 and 0.5 marks for 20

Q2.

a) 3 ways: accessor, mutator and manager

1 mark for writing 3 types

1 mark for description.

b) **Statement 1 : T.returnGST(); Statement 2 : Tax R;**

1 mark each for writing the correct statement.

c) **1 mark for correct class declaration with proper function declaration**

0.5 marks for constructor

0.5 marks for citycharge()

1 mark for registercab() with proper function call

1 mark for display() with proper calculation.

d) i) multilevel inheritance

ii) Enroll(), View(), Enter(), Show()

iii) Regno, Name, Budget.

iv) No.

1 mark for each correct answer (no partial mark will be awarded)

Q3.

a) **0.5 marks for correct function header with proper parameter.**

1 mark for correct logic

1.5 marks for correct logic implementation.

b) **0.5 marks for correct function header with proper parameter**

1 mark for finding the position of required elements

Ans: A'B' + CD + BC

1 mark for correct labelling and posting of 1

1 mark for correct groups

1 mark for correct answer

d) **1 mark for correct circuit diagram.**

e) **1 mark for correct canonical SOP.**

Q7.

a) The bleeding of a signal from one wire to another and which can corrupt signal and cause network errors. This form of signal interference is called Cross talk.

b) Microwave and Radio wave. **(0.5 marks each)**

c) **1 mark for each bit of correct answer.**

d) $\frac{1}{2}$ Mark for correct definition of mobile banking. $\frac{1}{2}$ mark for writing its one advantages.

e) An Internet Protocol address is a numerical identification and logical address that is assigned to devices connected in a computer network.

In a network every machine can be identified by a unique IP address associated with it and thus help in providing network security to every system connected in a network.

f) i) 1 mark for correct definition of Video Conference.

ii) 1 mark for correct explanation of cyber law.