



Examination : Third Sessional

Seat No. : _____

Date : 03/12/2014

Day : Wednesday

Time : 11:00 to 12:15

Max. Marks : 36

INSTRUCTIONS:

1. Figures to the right indicate maximum marks for that question.
2. The symbols used carry their usual meanings.
3. Assume suitable data, if required & mention them clearly.
4. Draw neat sketches wherever necessary.

Q.1 Answer the Following :

[12]

(A) Find the invalid identifiers from the following:-

[1]

(i) nA (ii) 2nd (iii) ROLL NO (iv) case

- (a) (i), (ii) and (iv)
(b) (i) and (iii)
(c) (ii), (iii) and (iv)
(d) (ii), (i) and (iii)

(B) Give answer with proper reason.

(i) In a for loop, if the condition is missing, then,

[1]

- (a) It is assumed to be present and taken to be false.
(b) It is assumed to be present and taken to be true.
(c) It results in a syntax error.
(d) Execution will be terminated abruptly.

(ii) main()

[2]

```
{ int x,y,z;  
scanf("%2d %*d %1d %d", &x, &y, &z);  
printf("x=%d y=%d z=%d",x,y,z); }
```

Explain the output if input is :

(a) 2 3 4 5 (b) 234 56 78

(C) Give the output of the following code:

[4]

(1) void main()

```
{ int a=2, b=3, c=0;  
if( a && b)  
{ c=10;}  
else  
{c=20;}  
printf("%d %d %d",a, b, c);  
}
```

(2) void main()

```
{ int a=12, b=25;  
printf("\nOutput1=%d", a | b);  
printf("\nOutput2=%d", a & b);  
printf("\nOutput3=%d", a ^ b);  
printf("\nOutput4=%d", (a>>1) & b);  
getch();  
}
```

(D) Write the output of the following code.

[4]

(1) for (i=1; i<4; i++)

```
printf("%d", (i%2) ? i : 2*i);
```

(2)

```
char x = 'B';  
switch (x) {  
case 'A': printf("a");  
case 'B': printf("b");  
case 'C': printf("c");  
default : printf("d");  
break; }
```

Q.2 Answer the following. (Any three)

[12]

(A) Explain Break, exit and continue.

[4]

(B) WAP to print all Armstrong numbers in given range.(Range i.e lower and upper limit should be entered by user)

[4]

(C) WAP to read numbers until -1 is encountered. Also calculate the sum and mean of all positive nos entered and sum and mean of all negative numbers entered separately.

[4]

(D) WAP to display largest of 6 numbers entered by user using ternary operator.

[4]

Q.3 Answer the following:

[12]

(A) WAP to calculate parking charges of a vehicle. Enter the type of vehicle as a character (like c for car, b for bus etc) and no. of hours then calculate charges as given below.

[6]

Truck/ Bus- 20 Rs per hour
Car- 10Rs per hour
Scooter/Cycle/Motor cycle- 5Rs per hour

- (B) WAP to print following pattern [6]
- ```
5
54
543
5432
54321
```

**OR**

**Q.3 Answer the following:** [12]

- (A) Write a Program to display sum of odd and sum of even no from entered number. [6]  
EX : no = 12345 then  
**Sumofodd** =  $1+3+5 = 9$  &  
**Sumofeven** =  $2+4 = 6$ .

- (B) .WAP to print following pattern [6]
- ```
5
45
345
2345
12345
```