

Enrol. No.

KADI SARVA VISHWAVIDYALAYA
LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR

B.E. Semester-II
MID-SEM EXAMINATION-2014

Date : Wednesday, 05/03/2014

Branch : CE/Civil/EC

Subject Name : Fundamental of Programming

Time : 12:00 PM TO 1:30 PM

Max. Marks : 30

- Instructions:
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Use of scientific calculator is permitted.
 - 4) Indicate clearly, the options you attempt along with its respective question number.
 - 5) Use the last page of main supplementary for rough work.

Q.1

- (a) Draw a block diagram for computer system and also explain each part of it in detail. [5]
- (b) Draw a flowchart to find maximum from three nos. [5]

OR

- (b) Write an algorithm to print Reverse of entered positive number. [5]

Q. 2

Give Output of following code. [10]

- (a)

```
main()
{
    int i=-1 ,j=-1 ,k=0 ,l=2 ,m;
    m=i++&& j++&& k++|| l++;
    printf("%d %d %d %d %d",i,j,k,l,m);
}
```
- (b)

```
int main()
{
    int a = 500, b = 100, c;
    if(!a >= 400)
        b = 300;
    c = 200;
    printf("b = %d c = %d\n", b, c);
    return 0;
}
```
- (c)

```
main()
{
    int i;
    i = 64/square(4);
    printf("%d", i);
}
```
- (d)

```
main()
{
    float sun = 1.1;
    double cloud = 1.1;
    if(sun==cloud)
        printf("Sunny Day");
    else
        printf("Rainy Day");
}
```

```

    }
(e) enum colors={BLACK,BLUE,GREEN}
    main()
    {
        printf("%d..%d..%d",BLACK,BLUE,GREEN);
        return(1);
    }

```

Q.3

- (a) Differentiate between while and do..while Loop. [4]
 (b) Write a program to check entered number is Armstrong or not. [4]

OR

- (a) Explain **goto** and **break** statement with example. [4]
 (b) Write a program to check entered character is a digit ,alphabet or symbol. [4]

- (c) Give Output of following code. [2]

```

[i] main()
    {
        printf ("%d", out);
    }
    int out=100;
[ii] main()
    {
        int c= -2 ,d ;
        d = (12,5,4);
        printf("c=%d \n d=%d", c, d);
    }

```

KADI SARVA VISHWAVIDHYALAYA
LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR
B.E. Semester I
MID SEMESTER EXAMINATION (October - 2014)

DATE : 09/10/2014
TIME : 10:30 TO 12:00

TOTAL MARKS : 30
BRANCH: IT,ME,EE,AE

FUNDAMENTALS OF PROGRAMMING

Instructions:

1. Attempt all Questions.
2. Figures to the right indicate full marks.
3. Indicate clearly, the options you attempt along with its respective Que.No.
4. Answer with neat sketches/block diagrams/flow charts, as required.

- =====
- Q-1**
- a** Draw a block diagram of computer system and explain its various components. **5**
- b** Draw flowchart to find maximum number out of three given numbers. **5**
- Q-2**
- a** Find out the output of following c code. **2**
- ```
void main()
{
 int iX=7, iY=8 , iZ=9;
 printf("\n %d %d%d",++iX, iX, iX++);
 printf("\n %d%d%d",iZ,iZ++,++iZ);
}
```
- b** Find out the output of following c code. **3**
- ```
void main()
{
    int x=9876;
    float y=98.7654;
    printf("%06d",x);
    printf("% -6d",x);
    printf("%2d",x);
    printf("% -7.2f",y);
    printf("%11.4e", -y);
    printf("%7. 2f",y);
}
```
- c** Explain relational operators with example. **5**
- OR**
- c** Explain basic data types in details. **5**

P.T.O.

Q-3 a Write a program to print following output. 5

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

b Explain switch case with example. 5

OR

Q-3 a Write a program to check whether entered number is Armstrong or not. 5

b Differentiate between while loop, do-while loop and for loop. 5

*****BEST OF LUCK*****