



PRESIDENCY UNIVERSITY, BENGALURU
SCHOOL OF ENGINEERING

Max Marks: 30

Max Time: 55 Mins

Weightage: 15 %

Set A

TEST 2

II Semester 2016-2017

Course: **COE A 102 Computer Programming**

23 March 2017

Instructions:

- i. Answer all questions
- ii. Read the question and answer accordingly

Part A

(5 x 2 M = 10 Marks)

1. What will be the message display on your output device when you execute the following code?

```
#include <stdio.h>
void main()
{
    int i;
    for(i=0;i<2;i++)
        printf("Welcome to PU ");
    printf("\n");
}
```

2. List the looping statements available in C language and also write syntax.
3. Assume that $x=5, y=0$ and $z=1$ initially, what will be their values after executing the following code

```
if(x||y||z)
    y=10;
else
    z=0;
```

4. Point out the error if any and what will be the output for the following code.

```
#include<stdio.h>
int main()
{
    int a = 10;
    switch(a)
    {
    }
    printf("Welcome to Computer Lab");
    return 0;
}
```

5. Translate the following while code segment to for loop

```
i=0;
j=0;
while(i<10)
{
  while(j<10)
  {
    if(a[i]==b[j])
    {
      a[j]=b[j]
      n=n+1;
    }
    j=j+1;
  }
  i= i+1;
}
```

Part B

(2 Q x 5 M= 10 Marks)

6. Explain nested if with an example.
7. Write a C Program to read three digit integer and print the sum of the number. Using while loop.

Example

Input

Enter a three digit integer No. 123

Output

The sum of the three digit integer no. is 6

Part C

(1 Q x 10 M= 10 Marks)

8. Write a C program to print the following series $1+2+3+4+\dots+n$ and its sum

Example:

If $n=5$

Output

$1+2+3+4+5 = 15$



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Set A

TEST-1

II Semester 2016-2017 Course: COE A 102 Computer Programming 23 February 2017

Part A

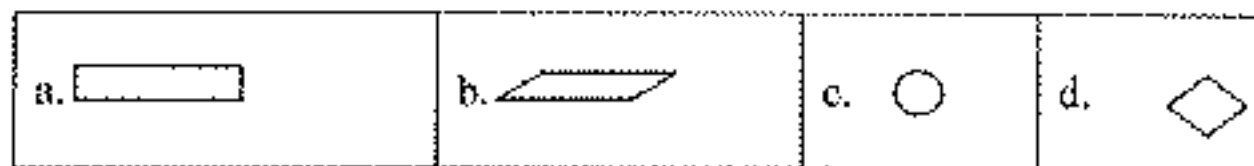
(4 Q x 2M =8M)

Answer the following Questions

1. List out the words which cannot be used as variables.

{ printf, int, main, if, name, void, flow, float, return, int, count }.

2. Identify the following flowchart symbols and mention their role in making flow chart.



3. Explain why the word "3rdCounter" is not a valid identifiers or variables in C? Modify it to make a valid identifier or variable.

4. What is the output of the following program?

```
int main(void)
{
int i = 8, j=5, d=2,c=2,result;
result = 3*i-2*j%2*d-c;
printf("%d is the result",result);
}
```

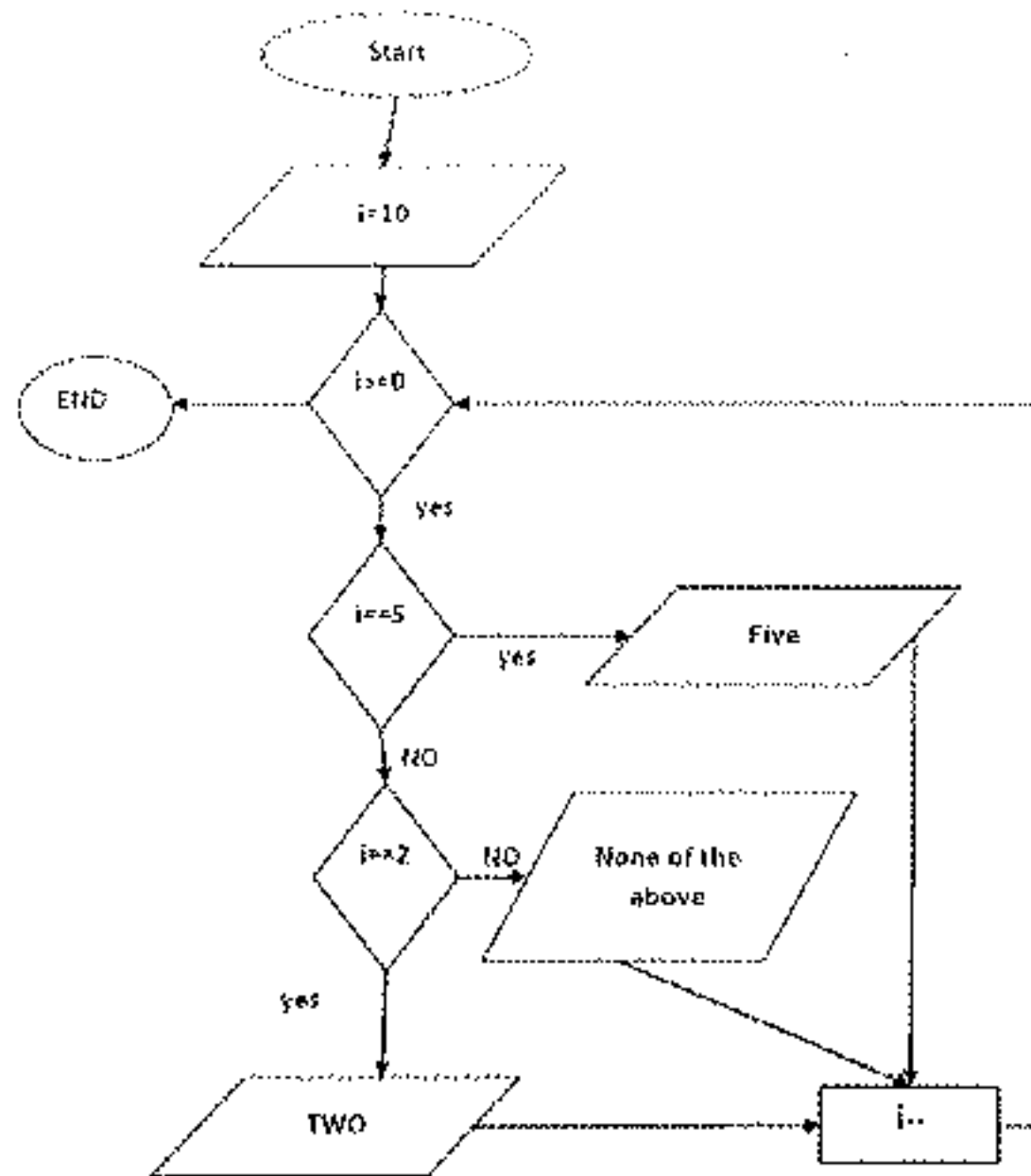
Part B

(2 Q x 6 M =12M)

5. Write C program to implement the following formula.

$$(x - 47)x \left(0.3a + \frac{7b}{9x} \right)$$

6. Trace the output of the following flowchart.



Part C

(1 Q x 10 M = 10M)

7. Give a flowchart to perform the following operations.

- Read five numbers say x_1, x_2, x_3, x_4, x_5 .
- Find the average of the numbers by using formula $\sum x/n$.
- If the average is ≥ 75 multiply with 0.75.
If the average is ≥ 50 multiply with 0.50.
If the average is ≥ 25 multiply with 0.25.
- Display the result in each case.