

Mock Question Bank Structured Programming Approach (FEC-205) **CBCGS/CBGS Semester II**

1. The _____ is a program design tool that is a visual representation of the logic in a function within a program. **(1M)**
 - (a) Flowchart
 - (b) Algorithm
 - (c) Pseudo code
 - (d) Source code

2. Which operators are used to test the relationship between two variables and a constant? **(1M)**
 - (a) Special Operator
 - (b) Arithmetic Operator
 - (c) Logical Operator
 - (d) Relational Operator

3. In C programming language 'else' is a part of which building block? **(1M)**
 - (a) Loop
 - (b) List Structure
 - (c) Counter
 - (d) Selection

4. AND, OR and NOT are logical operator. What data type are expected for their operands **(1M)**
 - (a) Character
 - (b) Integer
 - (c) Decimal
 - (d) Boolean

5. Which type of files can't be opened using fopen()? **(1M)**
 - (a) .txt
 - (b) .bin
 - (c) .c
 - (d) .exe

6. Which is the invalid variable name? **(1M)**
 - (a) Var_2
 - (b) 2_var
 - (c) _2var
 - (d) _var

7. If you want to store dissimilar data together, then which type will you use? **(1M)**
 - (a) Array
 - (b) Structure
 - (c) Stack
 - (d) None

8. Compiler helps in the translation from (1M)

- (a) Integer to binary
- (b) High-level program to binary digits
- (c) High-level language to machine level language
- (d) Pseudo code to computer program

9. The loop which is executed at least once: (1M)

- (a) while
- (b) do-while
- (c) for
- (d) if-else

10. What would be the output after the following statements are executed? (2M)

```
Char ch;  
int I;  
ch='G';  
i=ch - 'A';  
printf("%d",i);
```

- (a) Error
- (b) 7
- (c) 6
- (d) A

11. When we write $X=10$ and $Y=X$, which of the following memory assignment is correct? (1M)

- (a) X and Y will have same location and 10 will be stored.
- (b) X and Y will have two distinct locations and 10 will be stored in both.
- (c) X and Y will have same location and only X will contain value 10
- (d) X and Y will have two distinct locations and only X will contain value 10

12. If integer needs two bytes of storage, then the minimum value of a signed integer in C would be: Give the range if the value is n (1M)

- (a) $-(2^{16}-1)$
- (b) 0
- (c) $-(2^{15}-1)$
- (d) -215

13. Which of the following are incorrect statements? (1M)

- 1) `if(a==7) printf("hello");`
- 2) `if(7==a) printf("hello");`
- 3) `if(a=7) printf("hello");`
- 4) `if(7=a) printf("hello");`

- (a) 1 and 2
- (b) 3 only
- (c) 4 only

(d) 2,3 and 4

14. What is the output of the following code and write down the value of y? (2M)

```
#include<stdio.h>
int main()
{
  int y=10;
  int z= y+(y==10);
  printf("%d",z);
  return 0;
}
```

- (a) 10
- (b) 11
- (c) 20
- (d) Compiler error

15. What does this shape represent? (1M)



- (a) Decision
- (b) Process
- (c) Input/ Output
- (d) Start/ Stop

16. To repeat a task number of times we use (1M)

- (a) input statement
- (b) conditional statement
- (c) loop statement
- (d) output statement

17. What will be the output of the following? (2M)

```
#include<stdio.h>
int main()
{
    if(printf("1"))
        printf("inside if statement");
    else
        printf("inside else statement");
    return 0;
}
```

- (a) inside if statement
- (b) inside else statement
- (c) 1inside else statement
- (d) 1inside if statement

18. What will be the output of the following code? (2M)

```
#include <stdio.h>
#include <math.h>
void main()
```

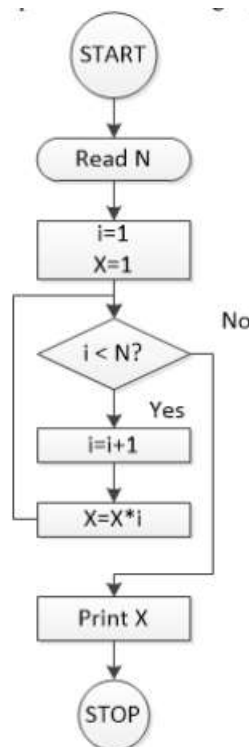
```
{
    int k = pow(2, 3);
    printf("%d", k);
    getch();
}
```

- (a) -1 (b) 9 (c) 8 (d) 6

19. Which one of the following statement is the most appropriate? **(1M)**

- (a) Pseudo code is basically a diagrammatic representation of the algorithm. Whereas in flowchart normal English language is translated into the programming languages to be worked on.
- (b) Flowchart is diagrammatic representation of the algorithm. Pseudo code is just another name of algorithm.
- (c) Pseudo code is another name of programming. Whereas in flowchart is diagrammatic representation of algorithm.
- (d) Flowchart is basically a diagrammatic representation of the algorithm. Whereas in pseudo code normal English language is translated into the programming languages to be worked on

20. The input N from the user is 6. The output of the following algorithm is **(2M)**



- (a) 120 (b) 720 (c) 5040 (d) 46656

21.

(2M)

What will be the output?

```
#include <stdio.h>
int main()
{
    float a = 6.0;
    printf("%.2f", (9/5)*a + 11);
    return 0;
}
```

- (a) 21.80 (b) 21.00 (c) 0.00 (d) 17.00

22.

(2M)

What if the output of the program below?

```
#include <stdio.h>
int main()
{
    int a = 1, b = -1, c = 0, d;
    d = ++a && ++b || c--;
    if (d)
        printf("Kolkata \n");
    else if(c)
        printf("Delhi \n");
    else
        printf("Bangalore \n");
    return 0;
}
```

- (a) Kolkata (b) Delhi (c) Bangalore (d) Compile error

23. What will be the output of the following C program?

(2M)

```
#include<stdio.h>
int main()
{
    int a, b, c;
    int arr[5] = {1, 2, 3, 25, 7};
    a = ++arr[1];
    b = arr[1]++;
    c = arr[a++];
    printf("%d--%d--%d", a, b, c);
    return 0;
}
```

- (a) 4--3—25
 (b) 3--3—25
 (c) 4--4—25
 (d) 3--4--25

24. What will be the output of the C program?

(2M)

```
#include<stdio.h>
int main()
{
    int arr[3], i = 0;
    while(i < 3)
    {
        arr[i] = ++i;
    }
    for(i=0; i<3; i++)
    {
        printf("%d--", arr[i]);
    }
    return 0;
}
```

- (a) Compilation error
- (b) 1--2--3—
- (c) Garbage value--1--2—
- (d) Garbage value--2--3—

25. What will be the output of the C program?

(2M)

```
#include<stdio.h>
int main(){
    int a = 25, b;
    int *ptr, *ptr1;
    ptr = &a;
    ptr1 = &b;
    b = 36;
    printf("%d %d", *ptr, *ptr1);
    return 0;
}
```

- (a) 25 45632845
- (b) Run time error
- (c) Compilation Error
- (d) 25 36

26. What will be the output of the C program?

(2M)

```
#include<stdio.h>
int main()
{
    struct simp
    {
        int i = 6;
        char city[] = "chennai";
    };
    struct simp s1;
    printf("%d", s1.city);
    printf("%d", s1.i);
}
```

```
        return 0;
    }

```

(a) chennai 6
 (b) Nothing will be displayed
 (c) Runtime Error
 (d) Compilation Error

27. What will be the output of the C program? (2M)

```
#include<stdio.h>
int main()
{
    EOF++;
    printf("%d", EOF);
    return 0;
}
```

(a) Compilation Error (b) -1 (c) 0 (d) 1

28. What will be the output of the C program? (2M)

```
#include<stdio.h>

int main(){
int num = 5;
switch(num++ == 5)
{
    case 1:
        printf("TRUE");
        break;
    case 0:
        printf("FALSE");
        break;
    default:
        printf("inside default");
}
return 0;
}
```

(a) inside default (b) FALSE (c) TRUE (d) Compilation Error

29. What will be the output of the following C program segment? (2M)

```
char p[20];
char *s = "string";
int length = strlen(s);
int i;
for (i = 0; i < length; i++)
    p[i] = s[length - i];
printf("%s", p);
```

(a) gnirts (b) gnirt (c) string (d) no output is printed

30. If the two strings are identical, then strcmp() function returns **(1M)**

(a) 1 (b) 0 (c) -1 (d) Yes

31. What will be the output of the C program?

(2M)

```
#include<stdio.h>
int function(int, int);
int main()
{
    int a = 25, b = 24 + 1, c;
    printf("%d", function(a, b));
    return 0;
}
int function(int x, int y)
{
    return (x - (x == y));
}
```

- (a) Compilation error (b) 25 (c) 1 (d) 24

32. What will be the output of the C program, if input is 6?

(2M)

```
#include<stdio.h>
int fun();
int main(){
    for(fun();fun();fun())
    {
        printf("%d ", fun());
    }
    return 0;
}
int fun()
{
    int static num = 10;
    return num--;
}
```

- (a) 8 5 2 (b) 7 4 1 (c) 6 3 0 (d) 8 1 5

33. What will be the output of the C program?

(2M)

```
#include<stdio.h>
int main()
{
    int i[3] = {1, 4, 0};
    while(i[2] == i[3])
    {
        if(i[3])
            printf("Loop ");
        else
            break;
    }
    return 0;
}
```

- (a) Compilation Error (b) Runtime Error (c) Prints Nothing (d) Loop