SET A

Sample Question Paper
B.Tech. I Year, I Sem.
C Programming (BCSC0001)

Time : 1 Hour **Maximum Marks: 30**

Note: Attempt all questions.

Fill in the blanks in the following programs from the options given below (Q1-10)

1. 1 Mark

```
#include <stdio.h>
____ main()
{
float fn , __ , ____;
printf("Enter two numbers: ");
scanf("%f%f", &fn, &sn);
product= __ *sn;
printf(" Product = %.2f", ___);
}
```

2. 1 Mark

```
#include<stdio.h>
void main()
{
int red, green, _____;
printf("enter value of red and green");
scanf("__          " , & red ,& green);
____= red;
red= _____;
green= temp;
printf(" red = %d, green = %d", _____, _____);
}
```

3. 1 Mark

```
#include<stdio.h>
void main()
{
_____ marry, harry;
_____ parry;
printf("enter values of marry and parry");
scanf("%f%d", & marry, & parry);
harry= marry+ parry;
_____("____", harry);
}
```

4. 1 Mark

```
#include<stdio.h>
void main()
{
int  mArry;
_____ parry,HaRry;
printf("enter values of marry and parry");
_____("%d%f", & marry, & parry);
_____= mArry + parry;
printf( "__",HaRry);
}
```

5. 2 Marks

```
#include<stdio.h>
void main()
{
int on=1, off=0;
if(on____1)
{
_____("Fan is ON so value is ");
_____("%d", on);
}
else
{
_____("Fan is OFF so value is ");
_____("%d", ___);
}
}
```

6. 2 Marks

Choose set of operators that can be filled in place of blank
// considered output is: hello first year

```
#include<stdio.h>
void main()
{
int ram= 0, shyam=7
m= ram __ shyam;
if(m)
printf("welcome !");
else
printf("hello first year");
}
```

7. 1Mark

```
#include<stdio.h>
void  main()
{
int red;
float blue;
printf("enter value of blue & red");
scanf("__ __ " ,__ __ ,___ __);
printf("Red is ____, Blue is ____",red,blue);
}
```

8. 2 Marks

```
#include<stdio.h>
void main()
{
int a;
____("Enter value");
____("%d",&a);
___(a<10)
____("%d",a+1);
___ ___(a>10)
____("%d",a-1);
___
____("%d",a);
}
```

9. 1 Mark

```
#include<stdio.h>
void main()
{
____ a=2,c;
____b;
if(_____("%d",a))
_____("%f",&b);
else
____("___",&c);
}
```

10. 1 Mark

Which of the following can be used in blanks:

1. red-color 2. har_ry 3. a@gmail 4. #ninja 5. maggi 6. I love maggi 7. 1st_red 8. red_1 9.

```
#include<stdio.h>
void main()
{
int ____,____,____;
printf("%d,%d,%d",____,____,____);
}
```

What do the following programs do (Q11-12)?

11. 1 Mark

```
#include<stdio.h>
void main()
{
int a=8;
if(((a>>1)<<1)==0)
printf("hello");
else
printf("bye");
}
```

12. 2 Marks

```
#include<stdio.h>
void main()
{
int a,b,c;
printf("enter two numbers");
scanf("%d%d",&a,&b);
c=a^b;
a=c^a;
b=c^b;
printf("%d%d%d",a,b);
}
```

What will be the output of following program? (Q13-19)

13. 1 Mark

```
#include<stdio.h>
int main()
{
   int i = 1 + 2 + 3;
   i = i + i;
   printf("i = %d\n", i);
   return 0;
}
```

14. 1 Mark

```
#include<stdio.h>
int main()
{
   int a, b, c, result;
   a = 1;
   b = 2;
   c = 3;
   result = ( a < 10 ) && ( ( 2 * b ) < c );
   printf("result = %d", result);
   return 0;
}
```

15. 1 Mark

```
#include<stdio.h>
   int main()
   {
      int a = 4;
      switch(a)
      {
         default : printf("Please input a valid
choice\n");
         case 5 : printf("FIVE\n"); break;
         case 4 : printf("FOUR\n"); break;
         case 3 : printf("THREE\n"); break;
         case 2 : printf("TWO\n"); break;
         case 1 : printf("ONE\n"); break;
      }
      return 0;
   }
```

16. 2 Marks

```
#include<stdio.h>
   int main()
   {
      int i, j;
      i = 0;
      j = i++;
      i = 0;
      j = ++i;
      i = 0;
      j = i--;
      i = 0;
      j = --i;
      printf("i = %d j = %d\n", i, j);
      return 0; }
```

17. 2 Marks

```
#include<stdio.h>
   #include<math.h>
   int main()
   {
      int a, b, c, result;
      a = 5;
      b = 4;
      c = 3;
      result = pow(b, 2) - (4 * a * c);
      printf("%d^2 - (4 * %d * %d) = %d", b, a, c,
result);
      return 0;
   }
```

18. 1 Mark

```
#include<stdio.h>
void main()
{
    int x = 5;
    if (x < 1);
      printf("TrinTrin");
}
```

19. 1 Mark

```
#include <stdio.h>
int main()
{
  int x = 19;
  (x & 1)? printf("Hi"): printf("Bye");
  return 0;
}
```

Jumbled Program (Q 20-23)

20. Arrange the code segments in a logical order to find subtraction of two numbers **(1 Mark)**

1. printf("Enter the first no.: ");
   scanf("%d",&a);

2. #include<stdio.h>
int main()
{
   int a,b,sub;

3. sub= a-b;
   printf("subtract is = %d\n", sub);

   return 0;
   }

4. printf("Enter the second no.: ");

   scanf("%d",&b);

A. 2 1 3 4 C. 2 1 4 3
B. 2 3 1 4 D. 2 4 3 1

21. Arrange the code segments in a logical order to find sum and average of two numbers. **(1 Mark)**

1. #include <stdio.h>
   int main()
   {

2. printf("Enter first number :");
   scanf("%d",&a);
   printf("Enter second number :");
   scanf("%d",&b);

3. sum=a+b;
   avg= (float)(a+b)/2;

4. printf("\nSum of %d and %d is = %d",a,b,sum);
   printf("\nAverage of %d and %d is = %f",a,b,avg);

5. int a,b,sum;
   float avg;

6. return 0;
   }

A. 1 5 2 3 4 6 C. 1 5 3 2 4 6
B. 1 5 2 3 6 4 D. 1 5 3 4 2 6

22. Arrange the code segments in a logical order to find the cube of number Without using pow() function(**1 Mark**)

1. cube = (a*a*a);
   printf("CUBE is: %d\n",cube);

2. #include <stdio.h>
   int main()
   {

3. int a,cube;

4. printf("Enter any integer number: ");
   scanf("%d",&a);
   //calculating cube

5. return 0;
   }

A. 2 1 3 4 5
B. 2 3 4 1 5
C. 21435
D. 24315

23. Arrange the code segments in a logical order to Temperature conversion program - Fahrenheit to Celsius and Celsius to Fahrenheit (**2 Marks**)

1. printf("\n1: Convert temperature from Fahrenheit to Celsius.");
   printf("\n2: Convert temperature from Celsius to Fahrenheit.");
   printf("\nEnter your choice (1, 2): ");
   scanf("%d",&choice);

2. else if(choice==2){
   printf("\nEnter temperature in Celsius: ");
   scanf("%f",&cl);
   fh= (cl*1.8)+32;
   printf("Temperature in Fahrenheit: %.2f",fh);
   }

3. if(choice ==1){
   printf("\nEnter temperature in Fahrenheit: ");
   scanf("%f",&fh);
   cl= (fh - 32) / 1.8;
   printf("Temperature in Celsius: %.2f",cl);
   }

4. else{
   printf("\nInvalid Choice !!!");
   }

5. #include <stdio.h>

int main()
{

float fh,cl;
int choice;

6. return 0;
   }

A. 5 2 1 3 4 6
B. 5 1 3 4 2 6
C. 5 1 3 2 4 6
D. 5 2 4 3 1 6