

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

float a, b, c;

printf ("Enter the value of Product : ");
 scanf ("%f", &a);

printf ("Enter the sales tax : ");

scanf ("%f", &b);

c = a + (b * a / 100);

printf ("Total cost of product is : %f", c);

return 0;

}

Enter the value of product
 = 10

Enter the sales tax = 10

Total cost of product is = 11.000000

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

{

int w, H, T;

printf ("Enter wages per hour : ");

scanf ("%d", &w);

printf ("Enter number of working hrs : ");

scanf ("%d", &H);

if (H < 30) {

T = w * H;

printf ("%d", T);

}

else {

T = (w * 30) + 2 * R * (H - 30);

Enter wages per hour : 1000

Enter number of working hrs : 30

34000

Ques - 3

#include <stdio.h>

int main ()

{ float change;

Change amount is

= 322.30000

$$\text{Change} = 500 - (100 * 50) + (1.5 * 35.0) + (10 * 100) \\ + (1.0 * 15)$$

printf ("change amount is : %f", change);
 return 0;
 }

Ans - 4

#include <stdio.h>

int main ()

{ printf ("Kartikey Varshney \n");

printf (" 18th November 2005 \n");

printf (" 01010101");

return 0;

}

Kartikey Varshney

18th November 2005

01010101

Ans - 5

#include <stdio.h>

10 5 22

int main ()

10

{ int A;

5

int B;

22

int C;

{ scanf ("%d %c %f", &A, &B, &C);

printf ("%d \n", A);

printf ("%c \n", B);

printf ("%f \n", C);

return 0; }

Ans 6 # include <stdio.h>
int main ()

{

float cost;

$$\text{cost} = 186.69$$

printf ("The sale total is : %.2f", cost);
return 0;

}

The sales total is \$
= 172.53

Ans 7 # include <stdio.h>
int main ()

E

float Apples;

$$\text{Apples} = 6.9 * 9$$

printf ("%2f", Apples);
return 0;

3

62.2

Ans 8 # include <stdio.h>
int main ()

29.60

2.96 + 01

{

float number;

scanf ("%f", & number);

printf ("%2f \n %2f", number;
number);

return 0;

y

Ques - 9

```
# include <stdio.h>
int main()
{
    long int mobile;
    scanf ("%d", &mobile);
    printf ("%d", mobile);
    return 0;
}
```

57982301

12345678

Ques - 10

include <stdio.h>

46800

include <math.h>

int main()

{

long int A, B;

A = 30000 + (0.2 * 30000);

B = A + (0.3 * A);

printf ("%d", B);

return 0;

}

Ques - 11

include <stdio.h>

d

int main()

A SCU value is: 100

{ char x

scanf ("%c", &x);

printf ("ASCU value is : %d", x);

return 0;

}

A-12 # include < stdio.h >

int main ()

{

float basic_pay, CTC ;

Enter value of basic pay

The CTC of this man is

basic pay = 15000

CTC = 2737.0000

printf ("Enter value of basic pay: ");

scanf ("%f", & basic_pay);

CTC = (basic pay) + (basic pay * 0.15) + (basic pay * 0.20),

printf ("The CTC of this man is: %f", CTC);

return 0;

}

A-13 # include < stdio.h >

include < math.h >

int main ()

Enter coordinates of two

point = 9210

slope = 1.00000

angle = 15.022826

{

int xp, yp, xq, yq ;

float slope, angle,

printf ("Enter coordinates of two points: ");

scanf ("%d %d %d %d", &xp, &yp, &xq, &yq);

slope = (yp - yq) / (xp - xq) ;

printf ("Slope = %f \n", slope);

Angle = atan (slope);

printf ("angle = %f \n", angle * 180/3.14);

return 0

}

Enter (inches):

22.444

Enter credit points:

9.8898

SPI = 2.190476

Ans-14 # include <stdio.h>
 int main ()
{

int g1, g2, g3, g4, g5, C1, C2, C3, C4, C5, SPI;

printf ("Enter grades: \n");

scanf ("%d %d %d %d %d", &g1, &g2, &g3, &g4, &g5);

printf ("Enter credit points: \n");

scanf ("%d %d %d %d %d", &C1, &C2, &C3, &C4, &C5);

$$SPI = 1.0 * ((C_1 * g_1) + (C_2 * g_2) + (C_3 * g_3) + (C_4 * g_4) + (C_5 * g_5)) / (C_1 + C_2 + C_3 + C_4 + C_5);$$

printf ("SPI = %.2f", SPI);

return 0;

Ans-15 # include <stdio.h>

int main ()

{

float freq, speed, wl;

printf ("Enter Wavelength: ");

scanf ("%f", &wl);

printf ("Enter Speed);

scanf ("Enter speed);

so

$$freq = speed / wl$$

printf ("freq. of the wave: %.2f", freq);

return 0;

include <stdio.h>

include <math.h>

{

float v

int u, a, s;

a = 5;

u = 30;

s = 70;

v = pow ((u * u + 2 * a * s) ; 0.5);

printf ("The final velocity = %.2f ", v);

return 0;

}

The final velocity =

40.000000

include <stdio.h>

12

int main ()

18.00

{

float s;

int a = 4, v, t = 3, u = 0;

v = u + a * t;

printf ("%d \n", v);

s = (u * t) + (0.5 * a * pow (t, 2));

printf ("%2f ", s);

return 0;

3

Ans-18 #include <stdio.h>

int main ()

{

long long int RN, a, b, c, d, s;
printf ("Give your roll no. = ");
scanf ("%ld", &RN);

a = RN % 10;

Give your roll no.

RN = RN / 10;

= 12300034

b = RN % 10;

The sum is

RN = RN % 10;

= 7

c = RN % 10;

RN = RN % 10;

d = RN % 10;

Ans-19 #include <stdio.h>

270.6 70

int main ()

height input is 106.69

{

float h, w, feet, pound;

= 154.32

scanf ("%f %f", &h, &w);

feet = h * 0.393701;

pound = w * 2.20462;

printf ("height in feet is %.2f weight in
pound is %.2f", feet, pound);

return 0;

}

Ans-20 a) char option

b) int sum = 0;

c) float product = 1.0;

A-21 # include <stdio.h>
int main ()

{

int a, b, c, d, e, f, g, h, i;

Give value of int

88, 10, 9, 11, 1, 2, 3, 4, 5

88, 10, 9

11, 1, 2

3, 6, 8

printf ("Give value of int = ");

scanf ("%d %d %d %d %d %d %d %d %d",
&a, &b, &c, &d, &e, &f, &g, &h, &i);printf ("%d %d %d %d %d %d %d %d
In, a, b, c, d, e, f, g, h, i);

return 0;

A-22 A header file also known as include file is a file that contains declaration of function, variable etc.

Q.24 GLA UNIVERSITY

A-25 Library function are pre written function that are available for use in your own programs

printf : used for output

scanf : used for input

tow : get convert two

A-26 30 36 1e

A-28 " C % for % Placement".

A-

Q.29 # include <stdio.h>

```
int main () {
```

```
    int m;
```

```
    float speed;
```

```
    printf ("Enter the distance b/w GLA university &  
Delhi in kilometer");
```

```
    scanf ("%f", &m);
```

```
    speed = m / 4.0;
```

```
    printf ("The speed of the bus is %f km/h In  
speed);
```

```
return 0;
```

```
}
```

Output

Enter the distance b/w university and Delhi
in kilometer : 500

The speed of the bus is : 125.00 km/h

Q.30 # include <stdio.h>

```
int main () {
```

```
    int satya Marks = 50;
```

```
    int suman Marks = 70;
```

```
    int shyam Marks = 80;
```

```
    float average Marks = (satya Marks + suman Marks +  
shyam Marks) / 3;
```

`printf ("The average marks of the three participants
is %f \n", average marks);`

`return 0;`

`}`

Output: The average marks of the three participants
is : 66.00.

Q31 #include <stdio.h>

`int main () {`

`int mohan Money = 100;`

`int Saurav Money = 50;`

`int sajal Money = 70;`

`int temp = Saurav Money,`

`for Saurav Money = sajal Money;`

`sajal Money = temp;`

Q33 Yes, we can combine multiple escape sequence in
a single line of program code in many programming
language.

Q34 Comments in a program are test annotations that
are ignored by the C compiler.

In C, there are two primary ways to insert comments.

1) Single-line comments: To insert a single-line comment
in a C program, we can use //

Q.35

There is missing 'f' before the variable name 'number'. The correct statement should be:
scanf ("f.d", & number);

Q.36

Yes

Q.38

include <stdio.h>

```
int main() {  
    int tankSize = 175;  
    int drainRate = 25;
```

float time required : (flood) tankSize / drainRate;

printf ("The time required to completely clean the
tank is %f hours \n", time required);

return 0;

{}

Output:

The time required to completely clean the tank
is 7 hours.

Q.39

Code

Q.40

a) Compiler

Q.41 (c) 1.0

Q.42 (b) 1.2f

Q.43

(b) array

Q-44) (c) "hell"

Q-45) (d) Garbage s

Q-46) b) Basic - pay

Q-47) a) C1