

PSEUDOCODE

```
1.
```

WRITE "2"

```
#include<stdio.h>
int main()
long double a;
long double b;
int arr[sizeof(!a+b)];
printf("%d",sizeof(arr));
A. Run time Error
B. 32
C. 64
D. No output
Ans. C
2.
READ x = 4, y = 0;
READ z;
z = (y++, y);
WRITE z
A. 1
B. 0
C. Undefined Behavior due to order of evaluation can be different.
D. Compilation Error
Ans.A
READ ch value between 1 & 2
switch(ch, ch+1)
case 1:
WRITE "1"
break;
case 2:
```



```
break;
default:
WRITE "3"
A. 1
B. Error: Undefined condition in switch
C. 1
D. No output
Ans. C
4.
What is the output of given code for input 134:
FUNCTION fun1(INPUT num)
static int a = 0;
IF (num>0)
a=a+1;
fun1(num/10);
ELSE
return a;
END FUNCTION
A. 2
B. 3
C. Runtime Error
D. None of these
Ans. B
What will be output of given pseudo code for input 7:
1. read the value of n
2. set m=1,t=0
3. if m >= n
4. go to line 9
```

Placement Classes

```
5. else
6. t=t+m
7. m+=1
8. go to line 3
9. display T
10. stop
A. 32
B. 76
C. 28
D. 21
Ans. D
6.
READ n=2
FUNCTION fun(int n)
IF(n == 4)
return n;
ELSE
return 2*fun(n+1);
A. 4
B. 8
C. 16
D. Error
Ans. C
<mark>7.</mark>
What will be output of given pseudo code:
int i=5, j=7;
if (i+j>5)
j = i+2;
if (j<5)
print(i)
else
print(j)
```

Placement Classes

```
else
print(i+1)
A. 12
B. 5
C. 7
D. 6
Ans. C
8.
What will be output of given pseudo code:
READ INTEGER j=41, k= 37
j=j+1
k=k-1
j=j/k
k=k/j
print(k,j)
A. 42 36
B. 36 1
C. 11
D. 136
Ans. B
9.
#include<stdio.h>
using namespace std;
int main()
int a = 0, b = 1, c = 2;
*( (a+1==1) ? &b : &a)= a? b : c;
printf("%d, %d, %d \n", a, b, c);
return 0;
A. 012
B. 0 2 0
C. 022
D. Error
```



Ans. C



What will be the output of the given pseudocode for s1=3 and e1=6?

READ s1,e1

FUNCTION num(INT s1,INT e1)

IF(s1==e1)

RETURN s1

ELSE

RETURN s1+num(s1+1,e1)

ENDIF

END FUNCTION

A.12

B.15

C.18

D.6

Ans. C

11. world=181

FUNCTION hello(int world)

INITIALIZE integer zero=0, integer remindme

WHILE world <>0

remindme=world%10;

zero=zero*10+remindme

hello(world/10)

ENDWHILE

WRITE zero



ENDFUNCTION A.zero B.181 C.18 D.1 Ans.B 12. consider the following pseudocode: number=122,567,789,543,536,999 Sum←0 Counter←0 Average←0 Input(number) While number <>999 Sum←sum+number Counter←counter+1 Input(number) Endwhile Average ← sum/counter Output('The average of the numbers is', average:6:2) 592.66 A. 511.40 В. 999.08 C.

Ans.B

3556.66

<mark>13.</mark>

D.

```
Set x to 1
Set y to 1
while(x<20)
     write 'x '
     x=x+5
     y=y+5
End while
A. 1 1 6 6 11 11 16 16
B. 1 5 10 15
C. 161116
D. None of these
Ans.C
14. n1=9,n2=322,n3=798,n4=789,n5=987
READ n1,n2,n3,n4,n5
SET avg to (n1+n2+n3+n4+n5)/5
If(n1<n2)
     SET max to n2
Else
     SET max to n1
If(n3>max)
     SET max to n3
If(n4>max)
     SET max to n4
If(n5>max)
```

Placement Classes

Telegram :- https://t.me/placementclasses

SET max to n5 Write max If(n1>n2) SET min to n2 Else SET min to n1 If(n3<min) SET min to n3 If(n4<min) SET min to n4 If(n5<min) SET min to n5 Write min If(max<min) Write max Else Write min A.9 9 9 B.987 9 987 C.987 9 9 D.987 9 798 Ans.C

15.

While<><>7



WRITE "HEY" **End While** A. HEY B. HEYHEY C. Infinite loop D. None of these Ans. C **16**. READ integer i to 1 switch(i) case i: WRITE "case 1 executed"; break case i + 1; WRITE"case 2 executed"; break case i + 2; WRITE"case 3 executed"; break default: WRITE"default block executed" break A. case 1 executed B. case 2 executed C. case 3 executed C. default block executed E. Error: i is not usable Ans.E 17. switch(3/3) case 1:

WRITE"case 1 executed "

Placement Classes

Telegram :- https://t.me/placementclasses

```
case 2:
WRITE"case 2 executed "
break;
case 3:
WRITE"case 3 executed "
break;
default:
WRITE"Default block executed"
A.Default block executed
B.case 1 executed
C.case 1 executed case 2 executed
D.Error:switch statements cannot hold
Ans.C
18.
READ i equals to 25
if i is equals to 25
     i = 50
if i is equals to 25
      add 1 to i
if i is equals to 25
      add 1 to i
else
      add 1 to i
else
      add 2 to i
else
      add 2 to i
WRITE i
```

A.26



B.27 C.52 D.55 Ans. 52 19. **INITIALIZE** false -1 **INITIALIZE NULL 0 INITIALIZE** true 1 if(NULL) WRITE "NULL" ELSEIF(false) WRITE "TRUE" **ENDIF ELSE** WRITE "FALSE" **ENDIF** A. TRUE B. FALSE C. NULL D. Error Ans. A 20. What will be the value of sum if num=187? Read num iter=0,sum=0 **Function Star(int num)** while(num>0) rem=num%l0 po=8^iter sum=sum+po*rem

```
iter++
num=num/10
End While
Return sum;
End Function
A.187
B.87
C.135
D.71
Ans.135
<mark>21.</mark>
Integer n
for (n = 6; n <> 0; n--)
       Print n
       n = n-1
end for
a) 6 4 2
b) 654321
c) 6
d) Infinite Loop
Ans: a
22.
READ INTEGER input a = 10 \& b = 7.
Function(input a, input b)
If(a < b)
return function(b, a)
elseif(b != 0)
```

return (a + function(a,b-1))

else

Placement Classes

Telegram :- https://t.me/placementclasses

return 0 A.17 B.107 C.70 D.701 Ans.C <mark>23</mark>. What will be the value of even_counter if number = 2630? Read number Function divisible(number) even_counter = 0, num_remainder = number; while (num_remainder) digit = num_remainder % 10; if digit != 0 AND number % digit == 0 even_counter= even_counter+1 End If num_remainder= num_remainder / 10; **End While** return even_counter; A) 3 B) 4 C) 2 D) 1 Ans. A 24. What will be the value of t if first=0, second= 999? **READ first & second** Function Hello(first, second)



hey = 0while (second!= 0) temporary = temporary + first second=second-1 **End While** return temporary; **End Function** A.999 **B.Infinite Loop** C.0 D.333 Ans.C <mark>25.</mark> Input m=6,n=9 n=n+1m=m-1n=n-m if (m>n)print m else print n A.6 B.5 C.55 D.9 Ans.B <mark>26.</mark> Input fib=20,gn=24 and set sum=0 Integer num



if(gn>fib) for(num=fib ;num<=gn;num=num+1)</pre> sum=sum+num End for loop else print error message print sum A.110 **B.21** C.011 D.error message Ans. A <mark>27.</mark> FUNCTION s(input x,input y) Input x=5 & y=3Input m=0 m=xх=у y=m m=xx=y+2y=m+2 m=xх=у y=m print(x,y) A. 35 B. 53 C. 57 D. 75 Ans. C



```
28.
```

```
Function fun(input x,input y)
initialize m=0
m+=b
if((m%a==0 && m%b==0)
       return m
else
       return fun(x,y)
Endif
EndFunction
Function main(input a,input b)
Input a=8,b=9
If(a>b)
       ans=fun(b,a)
Else
       ans=fun(a,b)
Endif
Write ans
EnfFunction
A.17
B.72
C.81
D.63
Ans.B
29) What is the output of the given pseudocode for a=100?
START
Function cont(int a)
if(a==0)
return 0;
else
return (a%10+2*cont(a/10));
Endif
```



EndFunction End A.2 B.4 C.6 D.1 Ans.B <mark>30.</mark> FUNCTION ch(input num){ INITIALIZE r_num=0, r if(num!=0)r=num%10 r_num=r_num*10+r ch(num/10) **ENDIF** return r_num **ENDFUNCTION** FUNCTION main() int num, r_num; READ num equals to 142 $r_num = ch(num);$ if(num==r_num) WRITE "YES"; else WRITE "NO"; A.NO **B.YES** C.141 D.241 Ans.A 31. Input array elements 1,2,3,4,5,6,7,8

Initialize n as number of elements

Initialize sum equals 0



```
i=n-1
Function SUM(array,i,sum)
If(i<0)
Write sum
if((ar[i]\%2==1)
       sum += (ar[i])
SUM(array,i-1,sum)
ENDIF
ENDFUNCTION
A.36
B.20
C.16
D.10
Ans.C
32.input a=8,b=16
int fun(int a,int b)
{
       int n=0
       if(b<1)
              return n
       else
              return fun(a+b+2,b-2)
}
A.33
B.88
C.0
D.128
Ans.C
<mark>33.</mark>
Integer a,b,c,d
Set a=14,b=15,c=16
```



```
If(a>6)
       b=c-a
       if(a>c)
              d=b+c
       else
              d=b-c
else
       d=a+b+c-3
print d
A.29
B.-14
C.31
D.18
Ans.B
34. Find output of given pseudocode for n=5?
Function Sum(int num)
                                (<> not equals to)
       If(num<>0)
              Return num+num*sum(num-1)
       Else
              Return num
       Endif
Endfunction
A.325
B.188
C.64
D.320
Ans.A
<mark>35.</mark>
Integer n,beg,end
Set beg=5,end=7,sum=0
If(beg>end)
```



```
Print sum+1
Else
      For(n=end; n>=beg; n=n-1)
             Sum=sum+n
             N=n-1
      End for loop
Print n
A.6
B.4
C.9
D.3
Ans.D
36. Assume that objects of the type short, float and long occupy 2 bytes, 4 bytes and 8
bytes respectively. The memory required for variable t, ignoring alignments
considerations, is:
struct{
      short s[5]
      union{
            float y;
            long z;
      }u;
}t;
A.22
B.24
C.18
D.10
Ans.C
37. bin1=1010 bin2=1000
READ input bin1,input bin2
INITIALIZE i equals 0, rem equals 0
INITIALIZE array ar of size 20
```

While(bin1!=0 or bin2!=0)

sum[i++]=(bin1%10+bin2%10+rem)%2

rem=(bin1%10+bin2%10+rem)/2

bin1=bin1/10

bin2=bin2/10

EndWhile

If(rem!=0)

sum[i++]=rem

--1

Endif

While(i>=0)

Print sum[i--]

EndWhile

A.10011

B.10010

C.0010

D.1000

Ans.B

38. num=12

FUNCTION factor(input num)

int i,j,primeno;

for(i=2;i<=num;i++)

if(num%i==0)

SET primeno as TRUE

Endif

Endfor

for(j=2;j<=i/2;j++)

if(i%j==0)

SET primeno as FALSE

Placement Classes

Break
Endif
Endfor
If primeno is TRUE
WRITE i
A.2 3 4 6 12
B. 4 6 12
C. 23
D. 12
E. 123
Ans. C
<mark>39.</mark>
Read array a[5]={5,1,15,20,25}
Initialize i, j, m
i=++a[1]
j=a[1]++
m=a[i++]
Write i, j, m
A.2, 1, 15
B.1, 2, 5
C.3, 2, 15
D.2, 3, 20
Ans.C
40. Integer i=0,j
While(i<2)
{



```
j=0;
while(j<=3*i)
{
print j
print blank space
j=j+3
}
Print end-of-line
l=i+1
}
A.0
  0 3
B.0 3
  0 3 6
C.0
  0 3 6
  0 3 6 9
D.0 3 6
  0 3 6 9
  0 3 6 9 12
Ans.A
```

```
1
1 2
1 2 3
Pseudocode:
integer i=1 //STATEMENT 1
while(i<=3)
{
int j //STATEMENT 2
while (j<=i) //STATEMENT 3
{
print j
print blank space
j=j+1 //STATEMENT 4
Print end-of-line
i=i+1
Identify the incorrect statement.
A.STATEMENT 4
B.STATEMENT 3
C.STATEMENT 2
D.STATEMENT 1
E.NO ERROR
```



Ans.C

Return num - -

```
42. Sum of the first 10 multiples of 10.
Integer i=0 //Statement 1
Integer sum=0 //Statement 2
While(i<=1000){ //Statement 3
sum=sum+i //Statement 4
---MISSING STATEMENT---
Print sum
Identify the missing statement and the incorrect statement.
A. i=5
  Statement 1
B.i=10*i
   Statement 2
C.i=i+10
   Statement 3
D.i=i+1
   Statement 4
Ans.C
43.
Function fun(){
Input num=40
```



```
}
Function main()
{
for(fun(); fun(); fun()) {
print fun();
}
Predict the output.
Ans. 38 35 32 29 26 23 20 17 14 11 8 5 2
<mark>44.</mark>
Function main()
  char *s[] = { "knowledge", "is", "power"}
  char **p
  p = s
  print ++*p
  print *p++
  print ++*p
A. nowledge nowledge s
B. knowledge knowledge is
C. knowledge nowledge s
D. is power
Ans.A
45. How many times the loop will execute?
for X=5 to 1
for Y=1 to X
      print Y
A.12
B.13
C.14
D.15
Ans.D
46.
Function foo(int* a, int* b)
```

```
sum = *a + *b
*b = *a
RETURN *a = sum - *b
```

Function main()

A.1 2 1 1

B.1 1 2 1

C.1 2 2 1

D.1 2 2 2

Ans.A

47. Read count=5

Set x to 0;

While(x < count)

Set even to even + 2

x = x + 1

write even

A.2 4 6 8 10

B.0 2 4 6 8

C.2 4 6 8

D.0 2 4 6

Ans.B

```
48. begin
  q := 0 // q is going to contain floor(x/y)
  r := x // r is going to contain x % y

// Repeatedly subtract y from x.
while r >= y do
  begin
    r := r - y
    q := q + 1
  end
end
```

The post condition that needs to be satisfied after the program terminates is

```
(A) \{ r = qx + y \land r < y \}
```

(B)
$$\{x = qy + r \land r < y\}$$

(C)
$${y = qx + r \land 0 < r < y}$$

(D)
$$\{ q + 1 0 \}$$

Ans.B

```
READ m = 10
Initialize n & n1
n = m++
n1 = ++m
n--
--n1
n -= n1
Write n
```

Placement Classes **(A)** 0 **(B)** 1 **(C)** -2 (D) None of these. Ans. C **50**. Function f(int* p, int m) m = m - 5*p = *p - mreturn; EndFunction Function main() Input i=10, j=5 f(&i, j) print i+j **A**)5 **B)** 25 **C)** 15 **D)** 30 Ans.C 51. what will be the output when entered 1? Function main() Input ch Write"Enter value between 1 to 2:" Read ch switch(ch,ch+1)

Case 1:



Write "1"
Case 2:
Write "2"
break
Default:
Write "3"
A.1 2
B.2
C.3
D. 23
Ans.B
<mark>52.</mark> input num=134
Function fun1(int num)
Static int a=0
If(num>0)
a=a+1
fun1(num/10)
else return a
A.8
B.3
C.2
D.431

Ans.B

```
53. n=2
int fun(int n)
if(n equals 5)
      return n
else
      return 2*fun(n+1)
A.20
B.16
C.5
D.40
Ans.D
<mark>54.</mark>
IF LOC=-1 do ITEM NOT FOUND
Do_(DATA,N,ITEM,LOC)
1.Initialize counter set LOC=0,LOW=0,HI=N-1
2.[Search for item]Repeat while LOW<=HI
      2.1 MID=(LOW+HI)/2
      2.2 IF ITEM=DATA[MID] do
      2.3LOC=MID
      2.4Return LOC
      2.5IF ITEM<DATA[MID]
            2.5.1HI=MID-1
```



2.6ELSE

2.6.1LOW=MID+1

- **A.**The elements in an array should be in the sorted form
- B.The array should contain more than one element
- C.The elements in an array should be in unsorted form.
- D.No pre-condition is required for the algorithm to follow.



