1. To which of the following domain problems does the Knapsack problem belong		
	○ NP-Complete	-
	○ Sorting	Points:0/1
	◯ Linear solution	
	Optimization	
	2. Integer i=0 while(+ (+i)!= 0) i- = i + 1;	Points:1/1
	end while Print i	
	© 0	
	o error	
	○ -1	
	3. Integer a,b,	
	set a=2, b=12 c=b< <a< td=""><td>Points:1/1</td></a<>	Points:1/1
	print c	
	<u> </u>	
	<u> </u>	
	4	
	4. For implementing which of the following algorithms, a linked list is not suitable?	Points:1/1
	○ Radix sort	
	☐ Insertion sort	
	Polynomial manipulation	
	Binary search Which of the following is the great appropriate data at which the point along the following is the great and the data at which the point along the following is the great and the great at the great and the great at t	
	5. Which of the following is the most appropriate data structure to print elements of a queue in reverse order?	Points:1/1
	∩ Tree	
	○ Linked - list	
	None of the mentioned options	
	Stack	
	6. Input n = 5 num = 1	Points:0/1
***************************************	while (num = 2 * n)	
	if(num % 2 == 1) print num	
	num = num + 1 End while	
i		

```
9
  No Output
  0 135
  13579
7. Which of the following linked lists will give 0(1) complexity, if we need to concatenate?
                                                                                        Points:1/1
Singly linked list
Double linked list
Circular linked list
Choose the correct answer from the options given below.
  Only 2 and 3
  Only 1 and 2
  All 1, 2 and 3
  Only 3
8. integer a,b,c,d set n=456, a=0, b=1
                                                                                        Points:1/1
    while (n>0)
       d=n mod 10
       a=a+d
       b=b*d
       n=n/10
    end while
     print a
     print b
  15 120
  None
  64 120
  12 24
9. Integer a = 10, b = 20
                                                                                        Points:1/1
b = (a + b)-(a = b)
Print a
Print b
  20 10
  1010 10100
  15 15
  0 10 20
10. n=5
                                                                                        Points:0/1
i = 0, s = 0
 Function Sample (int n)
  while (n > 0)
     r = n \% 10
    p = 8 ^{i}
    s = s + p * r
    i = i + 1
    n = n / 10
  End While
  Return s
End Function
  187
  27
```

```
120
  13
11. Integer a = 1, b = 0
                                                                                              Points:0/1
b = ++a + ++a
Print a
Print b
  0 11

    Compiler Dependent

  2 2
  0 10
12. Which of the following is the post fix expression for the given infix expression?
                                                                                              Points:0/1
  (a + b - c) * (d - e) / (f - g + h)
  \bigcirc a b c - + d e - f g - h + * /
  \bigcirc ab c-+de-fg-h+/*
  \bigcirc a b c - + d e f - g - h + / *
  a b c - + d e - f g h - + / *
13. Integer A[5][5],k,j;
                                                                                              Points:1/1
  for (k=0;k<5;++k)
     for(j=0;j<5;j++)
       A[k][i]=A[i][k]
     end for
  end for
  None of the mentioned option
  Both A & C
  It transposes the given matrix A

    It makes the given matrix A, symmetric

14. Integer a,b,v,c
                                                                                              Points:0/1
  set a=7, b=12,v=70
  while(v>5)
     a= a-v
     c=(a+b)mod 10
     while(c>7)
       b=b+c
     end while
     v=v/2
  end while
  print b,c
  16 82
  14 -2
  12 1
  12 -1
15. x = 4
                                                                                              Points:0/1
y = ++x
z = x++
Print x
Print y
Print z
  0 4 5 5
```

```
655
  454
  656
16. input n = 5
                                                                                         Points:1/1
num = 1
while ( num \le n )
    if ( num % 2 == 1)
    print num
    num = num + 1
End while
  No output
  0 135
  13579
17. Which of the following algorithms can be used to calculate the shortest path between
                                                                                         Points:0/1
two nodes in a graph?
Prim's Algorithms
Kruskal's Algorithms
Choose the correct answer from the options given below
  Only 1 and 2
  Only 2
  Neither 1 nor 2
  Only 1
18. Integer n
                                                                                         Points:1/1
  for (n = 3; n != 0; n--)
     Print n
       n = n-1
   end for
  3
  321
  3 1
  Infinite loop
19. For input a = 8 \& b = 9.
                                                                                         Points:1/1
Function(input a, input b)
  If(a < b)
    return function(b, a)
   elseif(b != 0)
    return (a + function(a,b-1))
  else
     return 0
  56
  78
  72
  68
20. Integer m,j,a[]
                                                                                         Points:0/1
  set a[]={2,3,5,7,1}
   m=a[0]
  for (j from 0 to 4)
    if (m<a[j])
```

```
m=a[j]
    end if
  end for
  print m
  2
  5
  7
21. What will be the output of the following pseudo code?
                                                                                            Points:0/4
  1. Integer a, b, c
  2. set a = 10, b = 3
  3. c = a / b
  4. b = a MOD c
  5. print a, b and c
  1033
  0 10 0 3
  10 1 3
  000
22. Which of the following is/are the advantages of a chained hash table (external
                                                                                            Points:1/1
hashing) over the open addressing method?

    None of the mentioned

  Efficiency use the space.
  Deletion is easier
  Worst case time complexity of the search operation is less
23. Integer n,b
                                                                                            Points:0/1
  Read n
  for(each i from 1 to n)
    b= i MOD 9
    if(b EQUALS 0)
       print i
    End if
  End for
  on to print all number from 1 to n which is divisible by 3 and 9
  None of the above
  to print all number from 1 to n which is divisible by 3,6 and 9
  o to print all number from 1 to n which is divisible by 9 only
24. char str[20]
                                                                                            Points:0/1
  integer sameset str = "ABCDEFGH"
  s=string length(str)
  str[5]=NULL
  s=strlen(str)
  print s

    Garbage Value

  4
  5
25. Input a[10]={1,2,3,4,5,6,7,8,9,10}
Print * a + 1 - * a + 3
```

4

44

100

error