Q1) With the given information provided, find out the address of Arr[17] in a 1-D array Arr[30]

lower bound = 1,

starting base address = 1100,

size of each element is 2.

1. 1132
2. 1070
3. 1128
4. 1068

Q2) What will be the output of the following pseudocode?

Integer arr[]={10, 20, 30, 40, 5}

Integer a, s

s = 0

a = arr[1] + arr[2]

Print a

1. 25
2. 5
3. 50
4. 40

Q3) What will be the output of the following pseudocode?

Integer a, b, c

b = 2, a = 2

c = a ^ b

Print c

1. 6
2. 4
3. 0
4. 2

Q4) Which of the following series will be printed by the given pseudocode?

Integer i, j, k, n

j=1, k=1

for(each i from 1 to 5)

print k

j=j+1

k=k+j

end for

1. 1 3 6 10 15
2. 1 2 3 4 5
3. 2 4 6 8 10
4. 1 1 2 3 5

Q5) Point out the error in the program?

int main()

{

char ch;

int i;

scanf("%c", &i);

scanf("%d", &ch);

printf("%c %d", ch, i);

return 0;

}

1. Error: suspicious char to in conversion in scanf()
2. Error: we may not get input for second scanf() statement
3. No error

Q6) Consider the following iterative implementation to find the factorial of a number:

int main()

{

int n = 6, i;

int fact = 1;

for(i=1; i<=n; i++)

\_\_\_\_\_\_\_\_\_;

printf("%d", fact);

return 0;

}

Which of the following lines should be inserted to complete the above code?

1. fact = fact + i
2. fact = fact \* i
3. i = i \* fact
4. i = i + fact

Q7) What is the output of this C code?

int main()

{

int i=12;

int \*p =&i;

printf(“%d\n”,\*p++);

}

1. Address of i++
2. 12
3. Garbage value
4. Address of i

Q8) Comment on the output of this C code?

int main()

{

int a = 1;

switch (a)

case 1:

printf("%d", a);

case 2:

printf("%d", a);

case 3:

printf("%d", a);

default:

printf("%d", a);

}

1. No error, output is 1111
2. No error, output is 1
3. Compile time error, no break statements
4. Compile time error, case label outside switch statement

Q9) How will you find the maximum element in a binary search tree?

a)

public void max(Tree root)

{

while(root.left() != null)

{

root = root.left();

}

System.out.println(root.data());

}

b)

public void max(Tree root)

{

while(root != null)

{

root = root.left();

}

System.out.println(root.data());

}

c)

public void max(Tree root)

{

while(root.right() != null)

{

root = root.right();

}

System.out.println(root.data());

}

d)

public void max(Tree root)

{

while(root != null)

{

root = root.right();

}

System.out.println(root.data());

}

Q10) What is the output of the following code?

void my\_recursive\_function(int n)

{

if(n == 0)

return;

printf("%d ",n);

my\_recursive\_function(n-1);

}

int main()

{

my\_recursive\_function(10);

return 0;

}

1. 10
2. 1
3. 10 9 8 … 1 0
4. 10 9 8 … 1

Q11) What is output of following code

Integer a,b,c

Set a=10 , c=5

b=a++

c+=b++

print a, b, c

a) 11 11 15

b) 11 11 10

c) 11 10 11

d) 10 10 10

Q12) What is output of the following code if a=10, b=12.

FUNCTION temp (int x, int y)

if(x>1)

temp (x-1 ,y-1)

else

print(y)

END if-else

temp(a,b)

a) 5

b) 3

c) 6

d) 12

Q13) What is output of following code:

FUNCTION fun(n)

if(n==0)

return 1

else

return n\*fun(n-1)

res=fun(5)

print(res)

a) 5

b) 3

c) 120

d) 24

Q14) What is output of this code

Declare an Integer Variable called n Declare an integer variable f1 Declare an integer variable f2 Declare an integer variable f3

set f3 to 0.

set f1 and f2 to 1 set n to 5

repeat 1 to n times f3 = f1 + f2

f1 = f2 f2 = f3 end loop print f3

a) 14

b) 11

c) 12

d) 13

Q16) Which print statements will be executed in this code

Integer x,y,z

SET x=5,y=6,z=7

If x<y OR y \* z >41

PRINT STATEMENT 1

END IF

If x<z OR x \* y >25

PRINT STATEMENT 2

ELSE

PRINT STATEMENT 3

a) PRINT STATEMENT 1 & STATEMENT 2

b) PRINT STATEMENT 1 & STATEMENT 3

c) PRINT STATEMENT 2 & STATEMENT 3

d) PRINT STATEMENT 1 & STATEMENT 2 & STATEMENT 3

Q17) What will be the output of given code if a=10

int main()

{

int a,\*p1,\*\*p2,\*\*\*p3,\*\*\*\*p4,\*\*\*\*\*p5;

p1=&a;

p2=&p1;

p3=&p2;

p4=&p3;

p5=&p4;

printf(“%d\t”,\*p1);

printf(“%d\t”,\*\*p2);

printf(“%d\t”,\*\*\*p3);

printf(“%d\t”,\*\*\*\*p4);

printf(“%d\t”,\*\*\*\*\*p5);

}

a) 10 11 12 13 14

b) 10 10 10 10 10

c) Error

d) Garbage value