

Started on	Monday, 18 April 2022, 3:03 PM
State	Finished
Completed on	Monday, 18 April 2022, 3:21 PM
Time taken	18 mins 33 secs
Marks	16.00/20.00
Grade	80.00 out of 100.00

Question 1

Complete

Mark 0.00 out of
1.00

what is the output of the following C Code

```
# include <stdio.h>
# define scanf  "%s hello "
int main()
{
    printf(scanf, scanf);
    return 0;
}
```

Select one:

☒ **a. hello hello**

☐ **b.**

%s hello %s hello

☐ **c.**

Compilation fails

☐ **d.**

%s hello hello

Question 2

Complete

Mark 1.00 out of
1.00

what is the output of the below java code ?

```
public class Main {  
    public static void main(String args[]) {  
        int a = 10, b = 4;  
        boolean res = ((a == b) && System.out.printf("Test"));  
        System.out.println(res);  
    }  
}
```

Select one:

☒ **a. None of these**

☐ **b. false**

☐ **c.**

Test false

☐ **d.**

false test

☐ **e. test**

Question 3

Complete

Mark 0.00 out of
1.00

Suppose the numbers 7, 5, 1, 8, 3, 6, 0, 9, 4, 2 are inserted in that order into an initially empty binary search tree. The binary search tree uses the usual ordering on natural numbers. What is the in-order traversal sequence of the resultant tree?

Select one:

☐ a.

7 5 1 0 3 2 4 6 8 9

☐ b.

0 1 2 3 4 5 6 7 8 9

☒ c.

0 2 4 3 1 6 5 9 8 7

☐ d.

9 8 6 4 2 3 0 1 5 7

Question 4

Complete

Mark 1.00 out of
1.00

what is the output of the below java code

```
class Main {  
    public static void main(String args[]){  
        final int i;  
        i += 5;  
        System.out.println(i);  
    }  
}
```

Select one:

☐ a. 5

☐ b. 0

☒ c.

Compilation fails

☐ d.

None of these

Question 5

Complete

Mark 1.00 out of
1.00

what is the output of the below C Code

```
#include<stdio.h>
int main()
{
    int var = 5;
    printf("%d ",var--);
    if(var)
        main(var);
}
```

Select one:

- ☐ a. 1 2 3 4 5
- ☐ b. 5 5 5 5 5
- ☐ c.

Compilation fails

- ☒ d.

Infinite Loop

- ☐ e. 1 1 1 1 1

Question 6

Complete

Mark 1.00 out of
1.00

what is the output of the following C Code

```
#include <stdio.h>
int main()
{
    int n;
    for(n = 7; n!=0; n--)
        printf("n = %d", n--);
    return 0;
}
```

Select one:

☐ a.

Segementaion fault

☐ b.

7 5 3 1 followed by segmentation fault

☒ c.

Infinite Loop

☐ d.

7 5 3 1 0

Question 7

Complete

Mark 1.00 out of
1.00

what is the output of the below java code

```
class Demo {  
    int i;  
}  
class Test {  
    public static void main(String args[]) {  
        Demo d;  
        System.out.println(d.i);  
    }  
}
```

Select one:

☐ a.

garbage value

☒ b.

compiler error

☐ c. 0

☐ d. runtime error

Question 8

Complete

Mark 0.00 out of
1.00

Given the EMPLOYEE relation as shown below.

Eno	EmployeeName	Email	EmployeeAge
1	Arun	arun@gmail.com	19
2	Anil	anil@gmail.com	19
3	Abhi	abhi@gmail.com	20
4	Anil	Anill@gmail.com	18

For (EmployeeName, EmployeeAge) to be the key for this instance, the value X should not be equal to

Select one:

☒

a.

Schema has to have more keys

☐

b.

None of these

☐

c.

19

☐ **d.**

18

Question 9

Complete

Mark 1.00 out of
1.00

what will the below code print

```
void m1(struct node* head)
{
    if(head == NULL)
        return;

    printf("%d  ", head->data);
    m1(head->next);
}
```

Select one:

☐ a.

Prints alternate nodes in reverse order

☒ b.

Prints all nodes of linked lists

☐ c.

Prints alternate nodes of Linked List

☐ d.

Prints all nodes of linked list in reverse order

Question 10

Complete

Mark 1.00 out of
1.00

What does the following code snippet do?

```
SELECT * FROM Emp Limit 5;
```

Select one:

☒ **a.**

```
select the first 5 entries for all the columns in the emp ta  
ble
```

☐ **b.**

```
select all the entries from the emp table other than the firs  
t 5 entries
```

☐ **c. None of these**

☐ **d.**

```
select all entries from the emp table except 5 random rows
```

Question 11

Complete

Mark 1.00 out of
1.00

Which of the following commands are used to put a restriction on the number of rows returned from a query?

Select one:

☒

a.

Limit

☐

b. Where

☐

c.

Group By

☐

d. Like

Question 12

Complete

Mark 1.00 out of
1.00

Follow the below Code and select the correct option

```
while ( there are more characters in the word to read )
{
    read a character
    push the character on the stack
}
while ( the stack is not empty )
{
    peek a character off the stack
    write the character to the screen
}
```

What is output for input "hello"?

Select one:

☒ a.

prints the character(on the top) infinite number of times.

☐ b.

olleh

☐ c.

Compilation fails

☐ d. hello

Question 13

Complete

Mark 1.00 out of
1.00

☐ e.

Prints Nothing

In SQL, _____ is an Aggregate function.

Select one:

☐ a.

SELECT

☒ b. AVG

☐ c.

MODIFY

☐ d.

CREATE

Question 14

Complete

Mark 1.00 out of
1.00

what is the output of the below C Code

```
#include <stdlib.h>
#include <stdio.h>
enum {true, false};
int main()
{
    int i = 1;
    do
    {
        printf("%d\n", i);
        ++i;
        if (i < 5)
            continue;
    } while (true);
    return 0;
}
```

Select one:

- ☐ a. 1 2 3 4 5
- ☒ b. 1
- ☐ c.

Prints Nothing

- ☐ d.

Compilation fails

Question 15

Complete

Mark 1.00 out of
1.00

what is the output of the below java code

```
class Test {  
    public static void main(String args[]) {  
        int x = -4;  
        System.out.println(x>>1);  
        int y = 4;  
        System.out.println(y>>1);  
    }  
}
```

Select one:

☐ a.

-4 4

☐ b.

-2 4

☐ c.

-4 2

☒ d.

-2 2

☐ e.

Compilation fails

Question 16

Complete

Mark 1.00 out of
1.00

Predict the output of the following program.

```
class First
{
    void display()
    {
        System.out.println("Inside First");
    }
}

class Second extends First
{
    void display()
    {
        System.out.println("Inside Second");
    }
}

class Test
{
    public static void main(String[] args)
    {
        First obj1 = new First();
        Second obj2 = new Second();
        First ref;
        ref = obj1;
        ref.display();
        ref = obj2;
        ref.display();
    }
}
```

Select one:

☐ a.

Compilation error

☐ **b.**

Inside First
Inside First

☒ **c.**

Inside First
Inside Second

☐ **d.**

Runtime error

Question 17

Complete

Mark 1.00 out of
1.00

what is the output of the below C Code

```
#include <stdlib.h>
#include <stdio.h>
char *getStr()
{
    return "i am a goo\0d boy";
}

int main()
{
    printf("%s", getStr());
    return 0;
}
```

Select one:

☐ a. i am a good

☐ b.

i am a goo\0d boy

☐ c. i am a good boy

☐ d.

compilation fails

☒ e. i am a goo

Question 18

Complete

Mark 0.00 out of
1.00

Which of the following can replace the below query?

Student Schema

```
ID int, Name varchar2(20),
```

```
ID Name
```

```
1 ram
```

```
2 shyam
```

```
3 gopal
```

```
4 sunder
```

```
SELECT Name, ID  
FROM Student WHERE ID = ID;
```

Select one:

☐ a.

Displays Nothing

☐ b.

Displays all records of the Student table

☒ c.

syntax error in Sql Query

☐ d. None of these

Question 19

Complete

Mark 1.00 out of
1.00

How many stacks are needed to implement a queue.
Consider the situation where no other data structure like arrays, linked list is available to you.

Select one:

☒ a.

2

☐ b. 1

☐ c.

3

☐ d.

4

☐ e.

Question 20

Complete

Mark 1.00 out of
1.00

Which of the following points is/are true about Linked List data structure when it is compared with array

Select one:

☐ a.

Arrays have better cache locality that can make them better in terms of performance.

☐ b.

It is easy to insert and delete elements in Linked List

☒ c. All the above

☐ d.

The size of array has to be pre-decided, linked lists can change their size any time

☐ e.

Random access is not allowed in a typical implementation of Linked Lists