

# Summary

Summary of your recent exam

Result: **Fail**

Marks: **13/40**

Percentage: **32.50 %**

Questions: **40**

Correct Answers: **13**

Attempted: **39**

1. Identify the incorrect statement about compilation and execution of java programs

2. What command is used to save the standard output in a file, as well as display it on the terminal?

3. Which command is used to change the I/O characteristics of the terminal?

4. Which Linux command list the content of all sub directory?

5. What will be the output of the following Java code?

```
1. class array_output
2. {
3.     public static void main(String args[])
4.     {
5.         int array_variable[][] = {{ 1, 2, 3}, { 4 , 5, 6}, { 7, 8, 9}};
6.         int sum = 0;
7.         for (int i = 0; i < 3; ++i)
8.             for (int j = 0; j < 3 ; ++j)
9.                 sum = sum + array_variable[i][j];
10.        System.out.print(sum / 5);
11.    }
12. }
```

6. How many constructors in the String class?

7. What will be the output of below statements?

```
String s = "Java String Quiz"; System.out.println(s.charAt(s.toUpperCase().length()));
```

8. What will be the output of the following class?

```
class C
{
    public static void main(String[] args)
    {
        String s1 = "Hello";
        String s2="India";
        String s3=s1+s2;
        String s4=s1.concat(s2);
        System.out.println(s3==s4);
        System.out.println(s3.equals(s4));
    }
}
```

9. Which component is responsible for optimizing byte-codes?

10. Which of these cannot be declared static?

11. Which of the following statements are incorrect?

12. What will be the output of the following Java program?

```
1.  class access
2.  {
3.      public int x;
4.      static int y;
5.      void cal(int a, int b)
6.      {
7.          x += a ;
8.          y += b;
9.      }
10. }
11. class static_specifier
12. {
13.     public static void main(String args[])
14.     {
15.         access obj1 = new access();
16.         access obj2 = new access();
17.         obj1.x = 0;
18.         obj1.y = 0;
19.         obj1.cal(1, 2);
20.         obj2.x = 0;
21.         obj2.cal(2, 3);
22.         System.out.println(obj1.x + " " + obj2.y);
23.     }
24. }
```

13. When invoking a method with an object argument, \_\_\_\_\_ is passed.

14. Choose the correct answer.

15. What will be the output of the following program?

```
class RecursiveFor
{
    public static void main(String[] args)
    {
        int out = 15;
        for (int i = 4; i < 6; i++)
        {
            for (int j = 7; j >= 5; j--)
            {
                if (i == j) continue;
                if (i > j)
                {
                    out += main(i, j);
                }
                else
                {
                    out += main(j, i);
                }
            }
        }
        System.out.println("out = " + out);
    }

    private static int main(int a, int b)
    {
        if (a + b == 0)
        {
            return 2;
        }
        return a + main(a - 1, b);
    }
}
```

16. What is the right output of this program ?

```
public class BitwiseNotOperator{
    public static void main(String[] args)
    {

        int i = 50;
        System.out.print(~i);
        System.out.print(",");
        System.out.print(~--i);
        System.out.print(",");
        System.out.print(~++i);
    }
}
```

17. The operating system and the other processes are protected from being modified by an already running process because \_\_\_\_\_

18. Where are placed the list of processes that are prepared to be executed and waiting?

19. By shell into the parameter, \_\_ reads the first argument

20. The program is interrupted by \_\_\_\_\_ command in appropriate way.

21. Which system call can be used by a parent process to determine the termination of child process?

22. The entry of all the PCBs of the current processes is in \_\_\_\_\_

23. If one thread opens a file with read privileges then:

24. A computer system supports 32-bit virtual addresses as well as 32-bit physical addresses. Since the virtual address space is of the same size as the physical address space, the operating system designers decide to get rid of the virtual memory entirely. Which one of the following is true?

25. In Process Address Space, The variable names, constants, and instruction labels are the basic elements of \_\_\_\_\_.

26. In which type of Fragmentation, Memory block assigned to process is bigger. Some portion of memory is left unused, as it cannot be used by another process.

27. A swapper manipulates \_\_\_\_\_ whereas the pager is concerned with individual \_\_\_\_\_ of a process.

28. Segment replacement algorithms are more complex than page replacement algorithms because \_\_\_\_\_

29. Command used to check shared memory is

30. One process requires M resource to complete a job. What should be the minimum number of resources available for N processes so that at least one process can continue to execute without blocking/waiting?

31. Which of the following are the major disadvantages of requesting all resources while preventing deadlock?

- i) delay process initiation
- ii) future resources requirements must be known
- iii) subject to cyclic restart

32. Which of the following are the thread synchronization primitives supported by Solaris

- i) Mutual exclusion
- ii) Semaphores
- iii) Signals
- iv) Condition variables

33. In which of the following Algorithm where the reference bit is used to determine whether a page has been recently referenced, and some page that has not been recently referenced is replaced?

34. In which of the following Page replacement Policy, at every page fault the page replacement policy replaces the page that was loaded into memory earlier than any other page of the process?

35. In UNIX, the set of masked signals can be set or cleared using the \_\_\_\_\_ function.

36. In most cases, if a process is sent a signal while it is executing a system call :

37. Both processes (the parent and the child) continue execution at the instruction after the fork(), with one difference: the return code for the fork() is \_\_\_\_\_ for the new (child) process, whereas the \_\_\_\_\_ process identifier of the child is returned to the parent.

38. When the operating system has performed a \_\_\_\_\_ operation, it has two choices for selecting a process either admitting a newly created process or bring in a previously suspended process.

39. There are the following statements that are given below, which of them are correct about Regular expressions in the Linux operating system?

- A. The regular expressions are strings that are used for pattern matching in some Linux commands.
- B. The regular expressions are also known as a regex.
- C. The regular expressions use some characters that each has a different meaning.
- D. Regular expressions can only be used in the Linux commands.

40. Which of the following command is used to display only directories that exist in the current directory?