

### Section A (Aptitude & Communication)

1. Find the right sequence of sentences:

P: youngsters in the cities and the villages

Q: The effect

R: of the cinema

S: on the school and college going is very bad

- A. PRQS      B. QRSP      C. QPSR      D. RQSP

2. Spot the error:

- A. Rahul is Often coming      B. to me      C. on Sundays      D. No Error

3. Correct the sentence:

I am tired as I am working since 7 O'clock in the morning.

- A. I was working      B. I have been working      C. I had been working      D. I will be working

4. Someone has stolen his book.

- A. His book is been stolen.      B. His book has been stolen.      C. His book is stolen.      D. His book has stolen.

5. Synonym of ALACRITY:      A. Mollify      B. Swiftness      C. Laziness      D. Lethargy

6. A teacher has 3 different books which she is trying to arrange on a bookshelf. In how many ways can the books be arranged on the shelf?

- A. 9 ways      B. 6 ways      C. 27 ways      D. 3 ways

7. Tina and Salman are waiting in a queue. If Tina is fifth in line and Salman is in the middle of the line. There are five people between Tina and Salman. How many people are waiting in line?      A. 10      B. 15      C. 21      D. 34

8. Four defenders in a football match — Defender A, Defender B, Defender C & Defender D — take their positions in this order in a row from right to left. During the match, Defender A changes places with Defender C and then Defender C changes places with Defender B. Which defender is now at the right end of the row?      A. Defender A      B. Defender B      C. Defender C      D. Defender D

9. A wooden cube weighs 4 gms. If the same wood is used to make another cube with sides twice as long, how much will the cube weigh?

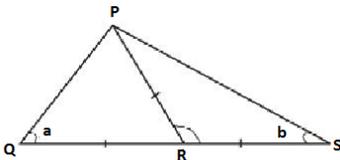
- A. 48 gms      B. 32 gms      C. 24 gms      D. 18 gms

10.  $\pi/3$  radians is same as:      A.  $60^\circ$       B.  $270^\circ$       C.  $45^\circ$       D.  $90^\circ$

11.  $\sin(90^\circ - x)$  equals:      A.  $\sin x$       B.  $1 - \sin x$       C.  $\cos x$       D.  $\operatorname{cosec} x$

12. What is the arithmetic mean of all the multiples of two from 2 to 16 inclusive?      A. 2      B. 7      C. 9      D. 14

13. Assuming that  $PR = RS = QR$ , and angle  $B = 30$  degrees, the value of angle A is:



- A. 45 degrees      B. 50 degrees      C. 55 degrees      D. 60 degrees

14. In a horse race Sahil came in ahead of Ram. Sahil finished after Shashi. Sonam beat Shashi but finished after Rahul. Who came second?

- A. Sahil      B. Shashi      C. Sonam      D. Rahul

15. In a class 15 students like maths, 20 students like english and 10 students like science. % students like all three subjects. If there are 50 students in a class, how many students like none of the three subjects?      A. 20      B. 15      C. 10      D. 5

15. If:  
 $2, 3 = 10$

7, 2 = 63  
 6, 5 = 66  
 8, 4 = 96  
 Then 9, 7 =.....

- A. 106                    B. 146                    C. 144                    D. 156

16. LIVING is coded as KGSHLD. How will BUDDHA be coded? :    A. ATEEIB    B. ATACFX    C. ATCCGZ    D. KGSHLD

17. To the correct number of significant figures,  $(5.0 \times 10^{-5}) \div (2.00 \times 10^{-2})$  is?

- A.  $2.5 \times 10^{-7}$     B.  $2.5 \times 10^{-3}$     C.  $2.50 \times 10^{-3}$     D. None of these

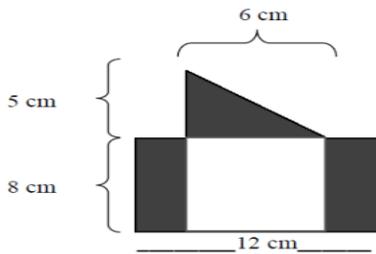
18. The price of petrol was reduced by 2 per cent in the month of July. If the new price is further reduced by 5 per cent in July, The total reduction in the price of petrol in the two months equals to:    A. 6.9%    B. 7 %    C. 10 %    D. 11.5%

19. Find the value of the following determinant:

$$\begin{vmatrix} 2 & 5 & 7 \\ 0 & 1 & -8 \\ 0 & -3 & 4 \end{vmatrix}$$

- A. 47                    B. -40                    C. 2                    D. -7

20. Find the area of the shaded region:



- A. 30 cm sq                    B. 48 cm sq                    C. 63 cm sq                    D. 72 cm sq

**Section B (Technical)**

21. If ASCII value of 'x' is 120, then what is the value of the H, if  $H = ('x' - 'w') / 3$ ;

- A.1    B.2    C.3    D.0

22. Determine the Final Output:

```
void main()
```

```
{
    printf("\nab");
    printf("\bsi");
    printf("\rha");
```

- }                    A. absiha                    B. asiha                    C. haasi                    D. hai

23. Which is the only function all C programs must contain? :    A. start()    B. system()    C. main()    D. printf()

24. What number would be shown on the screen after the following statements of C are executed?

```
char ch;
int i;
ch = 'G';
```

```
i = ch-'A';  
printf("%d", i);
```

A.5                    B.6                    C.7                    D.8

**25.** short testarray[4][3] = { {1}, {2,3}, {4,5,6}};

```
printf("%d", sizeof(testarray));
```

Assuming a short is two bytes long, what will be printed by the above code?

A.6    B.7    C.12    D.24

**26.** Value of ix+j, if i,j are integer type and ix long type would be:    A. integer    B. float    C. long integer    D. double percision

**27.** Which header file should we include for using std::auto\_ptr?

A. <memory>    B. <alloc>    C. <autoptr>    D. <smartptr>

**28.** Study the code given below and find the return value:

```
Class1& test(Class1 obj)  
{  
Class1 *ptr = new Class1();  
.....  
return ptr;  
}
```

A. object of Class1                    B. reference to ptr                    C. reference of Class1                    D. object pointed by ptr

**29.** Which of the following operators can be overloaded?

A. . (dot or member access operator)    B. & (address-of operator)    C. sizeof operator    D. ?: (conditional operator)

**30.** Which of the following is not a standard exception built in C++.

a. std::bad\_creat                    b. std::bad\_alloc                    c. std::bad\_cast                    d. std::bad\_typeid

**31.** If para1 is the DOM object for a paragraph, what is the correct syntax to change the text within the paragraph?

A. "New Text"?    B. para1.value="New Text";    C. para1.firstChild.nodeValue= "New Text";    D. para1.nodeValue="New Text";

**32.** Which of the following event fires when the form element loses the focus: <button>, <input>, <label>, <select>, <textarea>?

A. onfocus                    B. onblur                    C. onclick                    D. ondblclick

**33.** To enable data tainting, the end user sets the \_\_\_\_\_ environment variable.

A. ENABLE\_TAINT                    B. MS\_ENABLE\_TAINT                    C. NS\_ENABLE\_TAINT                    D. ENABLE\_TAINT\_NS

**34.** Which is the correct way to write a JavaScript array?

A. var txt = new Array(1:"tim",2:"kim",3:"jim")    B. var txt = new Array:1=("tim")2=("kim")3=("jim")

C. var txt = new Array("tim","kim","jim")    D. var txt = new Array="tim","kim","jim"

**35.** <script type="text/javascript">

```
x=4+"4";
```

```
document.write(x);
```

```
</script>
```

Output-----?

A. 44    B. 8    C. 4    D. Error output

**36.** Which type of driver provides JDBC access via one or more ODBC drivers?

A. Type 1 driver    B. Type 2 driver    C. Type 3 driver    D. Type 4 driver

**37.** Which of the following allows non repeatable read in JDBC Connection?

A. TRANSACTION\_READ\_UNCOMMITTED    B. TRANSACTION\_READ\_COMMITTED  
C. TRANSACTION\_SERIALIZABLE    D. TRANSACTION\_REPEATABLE\_READ

**38.** Which type of Statement can execute parameterized queries?

A. PreparedStatement    B. ParameterizedStatement  
C. ParameterizedStatement and CallableStatement    D. All kinds of Statements

**39.** How can you execute a stored procedure in the database?

A. Call method execute() on a CallableStatement object    B. Call method executeProcedure() on a Statement object  
C. Call method execute() on a StoredProcedure object    D. Call method run() on a ProcedureCommand object

**40.** What happens if you call deleteRow() on a ResultSet object?

A. The row you are positioned on is deleted from the ResultSet, but not from the database.  
B. The row you are positioned on is deleted from the ResultSet and from the database  
C. The result depends on whether the property synchronizeWithDataSource is set to true or false  
D. You will get a compile error: the method does not exist because you can not delete rows from a ResultSet