

Academic Year 2022-2023
Questions & Answers

1. **Complete the following series 10000, 11000, 9900, ?**
1) **10890**
2) 11990
3) 18890
4) 11900

2. **Complete the following series 1,6,15,28, ?, 66**
1) 42
2) **45**
3) 25
4) 22

3. **Find the average of first 6 consecutive even numbers.**
1) 7
2) 1
3) 6
4) 4:

4. **Find the missing number in the series? 4, 18, ?, 100, 180, 294, 448**
1) 40
2) **48**
3) 50
4) 30

5. **What should be the missing number in the given series: 132 156 ? 210 240 272**
1) **182**
2) 192
3) 190
4) 198

6. **Find the wrong number in the series. 1, 2, 6, 15, 31, 56, 91**
1) 31
2) **91**
3) 56

7. **Complete the series 2 10 50 ? 1250 6250**

- 1) 125
- 2) **250**
- 3) 400
- 4) 500

8. **Complete the series 22, 21, 23, 22, 24, 23, ...**

- 1) **25**
- 2) 22
- 3) 23
- 4) 21

9. **Complete the series 5 5 7.5 ? 37.5 112.5**

- 1) 10.5
- 2) 20
- 3) **15**
- 4) 15.5

10. **Find the wrong number in the series. 1, 2, 6, 15, 31, 56, 91**

- 1) **91**
- 2) 31
- 3) 56
- 4) 15:

11. **What is 4th proportional in 9, 13 and 153?**

- 1) **221**
- 2) 251
- 3) 234
- 4) 278

12. **Which number should come in place of question mark (?) in the following number series.**

132 156 ? 210 240 272

- 1) 196
- 2) **182**
- 3) 123
- 4) 121

13. **How many permutations of the letters of the word APPLE are there?**

- 1) 200
- 2) 600
- 3) **60**
- 4) 20

14. In how many ways 4 boys and 3 girls can seat alternate in a row?
- 1) 150
 - 2) 256
 - 3) **144**
 - 4) 288
15. What is 4th proportional in 9, 13 and 153?
- 1) **221**
 - 2) 251
 - 3) 211
 - 4) 110
16. If the average of four consecutive odd numbers is 16, find the smallest of these numbers? [
- 1) 11
 - 2) **13**
 - 3) 6
 - 4) 7
17. In what ways can a group of 6 boys and 2 girls be made out of the total of 7 boys and 3 girls?
- 1) 23
 - 2) 27
 - 3) **21**
 - 4) 19
18. Out of 7 constants and 4 vowels, how many words of 3 constants and 2 vowels can be formed?
- 1) **25200**
 - 2) 25000
 - 3) 22300
 - 4) 24560
19. Which AI super-computer was ranked at 75th position at Top 500 Global Supercomputing List?
- 1) ANIKET
 - 2) **AIRAWAT**
 - 3) ARJUN
 - 4) ARIN

20. **When is the 'International Day of Zero Wastes' observed?**
1) **March 30**
2) March 20
3) April 10
4) March 3
21. **Which space agency has detected the oldest black hole ever observed?**
1) **NASA**
2) ISRO
3) CDAC
4) CAN
22. **What is the 'Merriam-Webster's word of 2022?**
1) Permacrisis
2) **Gaslighting**
3) Homer
4) Metaverse
23. **The Nobel Prize for Physics 2022 is being shared by three scientists, for their work in which field?**
1) **Quantum mechanics**
2) Space science
3) Nuclear Physics
4) Atomic science
24. **Which is the parent company of DeepMind Technologies, that has developed 'AlphaFold' AI tool?**
1) **Alphabet**
2) Microsoft
3) Apple
4) Google
25. **Tele-MANAS Initiative, which was launched recently, is associated with which field?**
1) Child health
2) **Mental health**
3) Communicable Diseases
4) Science & Technology
26. **For the first time, a 'Weapon System branch for officers' has been approved for which Armed Force?**
1) Indian Army
2) Indian Navy
3) **Indian Air Force**
4) Indian Coast Guard

27. Which technological company launched 'Viewpoints' application?

- 1) Google
- 2) **Facebook**
- 3) Apple
- 4) Microsoft:

28. Which company has launched its new video conferencing application 'BlueJeans'?

- 1) **Bharti Airtel**
- 2) Jio
- 3) Airtel
- 4) Facebook

29. What is the name of the first 'Quantum Computer Simulator Toolkit' of India?

- 1) **QSim**
- 2) ComSim
- 3) India Sim
- 4) Bharat Sim

30. Which organisation developed the Real-Time Train Information System for Indian Railways?

- 1) DRDO
- 2) **ISRO**
- 3) BEL
- 4) HAL

31. Which company as developed AI chatbot Bard?

- 1) Microsoft
- 2) Meta
- 3) IBM
- 4) **Google**

32. The Embassy of which country organised 'SHE STEM event' in partnership with the Atal Innovation Mission?

- 1) **Sweden**
- 2) USA
- 3) China
- 4) Australia

33. The average age of A, B and C is 26 years. If the average age of A and C is 29 years, what is the age of B in a year?
- 1) 22
 - 2) 23
 - 3) **21**
 - 4) 28
34. 30% of a number is 12.6, find the number?
- 1) **42**
 - 2) 35
 - 3) 32
 - 4) 36
35. The true discount on a bill of Rs. 2700 is Rs. 200. What is the banker's discount?
- 1) 212
 - 2) **216**
 - 3) 122
 - 4) 234
36. A running man crosses a bridge of length 500 meters in 4 minutes. At what speed he is running?
- 1) 5.5 km/s
 - 2) **7.5 km/s**
 - 3) 6.2 km/s
 - 4) 8.5 km/s
37. If January 1, 1996, was Monday, what day of the week was January 1, 1997?
- 1) **Wednesday**
 - 2) Thursday
 - 3) Friday
 - 4) Saturday
38. The average of 20 numbers is zero. How many of them may be greater than zero, at the most?
- 1) 9
 - 2) **19**
 - 3) 20
 - 4) 10

39. Which Asian country has officially recognised e-Sports as part of multi-sports events?

- 1) **India**
- 2) China
- 3) Japan
- 4) Nepal

40. 'Future Engineer Program' is an initiative of which multi-national company?

- 1) Samsung
- 2) **Amazon**
- 3) Google
- 4) IBM

41. ____ is the first district for deployment of innovative 5G use cases in India?

- 1) **Vidisha**
- 2) Pune
- 3) Thane
- 4) Mumbai

42. What will be the output of the following Java coding?

```
class Test {  
    public static void main(String args[])  
    {  
        char chars[] = {'J', 'A', 'V', 'A'};  
        String s = new String(chars);  
        System.out.println(s);  
    }  
}
```

- 1) J
- 2) **JAVA**
- 3) A

43. What is the output of the following Java Code?

```
int a=9;  
float b = a/2;  
System.out.println(b);
```

- 1) **4.0**
- 2) 4.5
- 3) 5.0

44. **Classes and objects that depends on each other are referred as?**

- 1) Weak Coupling
- 2) **Tight Coupling**
- 3) Cohesion
- 4) Loose Coupling

45. **If a thread goes to sleep**

- 1) **It does not release any locks.**
- 2) It releases all the locks it has.
- 3) It releases half of its locks.

46. **Choose the correct statement about servlets**

- 1) Servlets can use the full functionality of the Java class libraries
- 2) Servlets execute within the address space of web server
- 3) **Servlets execute within the address space of web server, platform independent and uses the functionality of java class libraries**

47. **Who is the father of HTML?**

- 1) Rasmus Lerdorf
- 2) **Tim Berners-Lee**
- 3) Sergey Brin
- 4) Brendan Eich

48. **Which of the following tag is used for inserting the largest heading in HTML?**

- 1) **<h1>**
- 2) <h2>
- 3) <heading>
- 4) <h3>

49. **How to insert a background image in HTML?**

- 1) **<body background = "img.png">**
- 2)
- 3)
- 4) <bg-image = "img.png">

50. **Which of the following joins are SQL server default?**

- 1) Outer
- 2) **Inner**
- 3) Equi
- 4) None of the above

51. How many Primary keys can have in a table?

- 1) **Only 1**
- 2) Only 2
- 3) depends on number of columns
- 4) depends on DBA:

52. SQL Views are also known as

- 1) **Virtual tables**
- 2) Simple tables
- 3) Actual tables
- 4) simple tables

53. Which of this method is used to find out that a thread is still running or not?

- 1) run()
- 2) Alive()
- 3) **isAlive()**
- 4) checkRun()

54. Which of this method can be used to make the main thread to be executed last among all the threads?

- 1) stop()
- 2) **sleep()**
- 3) join()
- 4) call()

55. What is true about protected constructor?

- 1) Protected constructor can be called directly
- 2) **Protected constructor can only be called using super()**
- 3) Protected constructor can be used outside package
- 4) protected constructor can be instantiated even if child is in a different package

56. Partners A and B make an investment in their business. The ratio of the investment is 3:2. They decide to donate 5% of the proceeds from their profits to charity. A received a share of Rs. 855, calculate the total profit the business has incurred?

- 1) 500
- 2) 1000
- 3) **1500**
- 4) 2000

57. A country football club and a good season won 30% of the 60 games they played. Their average then raised to 50%. How many games in a row did they team have to win to reach these figures?
- 1) 12
 - 2) 20
 - 3) **24**
 - 4) 30
58. Which of the following can be used to call a JavaScript Code Snippet?
- 1) RMI
 - 2) Trigger
 - 3) Preprocessor
 - 4) **Function**
59. Arrays in JavaScript are defined by which of the following statements
- 1) **It is an ordered list of values**
 - 2) It is an ordered list of objects
 - 3) It is an ordered list of string
 - 4) It is an ordered list of functions
60. Which of the following scoping type does JavaScript use?
- 1) Sequential
 - 2) Segmental
 - 3) **Lexical**
 - 4) Literal
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- 1) Sequential
 - 2) Segmental
 - 3) **Lexical**
 - 4) Literal

64. Which is valid C expression?

- 1) int my_number = 10,000;
- 2) **int my_number = 100;**
- 3) int my number = 10;
- 4) int \$my number = 500;

65. Which keyword is used to prevent updating the variable in C programming?

- 1) mutable
- 2) immutable
- 3) Volatile
- 4) **const**

66. Which of the following is not a C preprocessor?

- 1) #define
- 2) #endif
- 3) #ifdef
- 4) **#point**

67. Which of the following can be used to call a JavaScript Code Snippet?

- 1) **Function/ Method**
- 2) Triggering Event
- 3) RMI
- 4) Preprocessor

68. Arrays in JavaScript are defined by which of the following statements?

- 1) **It is an ordered list of values**
- 2) It is an ordered list of objects
- 3) It is an ordered list of classes
- 4) It is an ordered list of functions

69. Why JavaScript Engine is needed?

- 1) **Interpreting the JavaScript**
- 2) Compiling the JavaScript
- 3) Parsing the javascript
- 4) Both Compiling & Interpreting the JavaScript

70. How many operations are considered to be the most basic SQL operations?

- 1) **4**
- 2) 3
- 3) 2
- 4) 1

71. Select the correct foreign key constraint?

- 1) **Referential Integrity**
- 2) Entity integrity
- 3) Primary Integrity
- 4) Domain Integrity

72. SQL Views are also known as

- 1) Simple table
- 2) **Virtual table**
- 3) Complex table
- 4) Actual table

73. Which of the following CSS selector is used to specify a rule to bind a particular unique element?

- 1) Class
- 2) **id**
- 3) tag
- 4) unique

74. Which of the following CSS style property is used to specify an italic text?

- 1) **font-style**
- 2) font-weight
- 3) font
- 4) style

75. Which of the following is not the property of the CSS box model?

- 1) margin
- 2) **color**
- 3) height
- 4) width

76. The "let" and "var" in Javascript are known as:

- 1) **Declaration statements**
- 2) Prototypes
- 3) Statements

77. Which one of the following is the correct way for calling the JavaScript code?

- 1) **Function/Method**
- 2) Preprocessor
- 3) Event

78. Arrays in JavaScript are defined by which of the following statements?

- 1) **It is an ordered list of values**
- 2) It is an ordered list of functions
- 3) It is an ordered list of objects:

78. Python Programming Language was designed by _____ ?

- 1) Wick van Rossum
- 2) **Guido van Rossum**
- 3) Elon van
- 4) James Gosling

79. What will be the output of the following code snippet? print(type(5 / 2)) print(type(5 // 2))

- 1) **float and int**
- 2) int and float
- 3) int and int
- 4) float and float:

80. As what datatype are the *args stored, when passed into a function?

- 1) **tuple**
- 2) list
- 3) array:

81. What keyword is used in Python to raise exceptions?

- 1) **raise**
- 2) goto
- 3) throw

82. Which of the following modules need to be imported to handle date time computations in Python?

- 1) **datetime**
- 2) date
- 3) time

83. From all the clauses in MYSQL which task is performed by the DISTINCT clause?

- 1) **It returns us the unique values**
- 2) It returns us the duplicate values
- 3) It returns us the NULL values

84. Which key is the minimal set of super keys?

- 1) **Candidate key**
- 2) Unique key
- 3) Foreign key
- 4) Primary key