

Academic Year 2023-2024

Questions & Answers

1. **Complete the series 2 10 50 ? 1250 6250**
 - 1) 125
 - 2) **250**
 - 3) 400
 - 4) 500

2. **Complete the series 22, 21, 23, 22, 24, 23, ...**
 - 1) **25**
 - 2) 22
 - 3) 23
 - 4) 21

3. **Complete the series 5 5 7.5 ? 37.5 112.5**
 - 1) 10.5
 - 2) 20
 - 3) **15**
 - 4) 15.5

4. **Find the wrong number in the series. 1, 2, 6, 15, 31, 56, 91**
 - 1) **91**
 - 2) 31
 - 3) 56
 - 4) 15

5. **What is 4th proportional in 9, 13 and 153?**
 - 1) **221**
 - 2) 251
 - 3) 234
 - 4) 278

6. 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

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

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

8. In how many ways 4 boys and 3 girls can seat alternate in a row?

- 1) 150
- 2) 256
- 3) **144**
- 4) 288

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

- 1) **221**
- 2) 251
- 3) 211
- 4) 110

10. If the average of four consecutive odd numbers is 16, find the smallest of these numbers?

- 1) 11
- 2) **13**
- 3) 6
- 4) 7

11. 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

12. **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

13. **Which AI super-computer was ranked at 75th position at Top 500 Global Supercomputing List?**

- 1) ANIKET
- 2) **AIRAWAT**
- 3) ARJUN
- 4) ARIN

14. **When is the 'International Day of Zero Wastes' observed?**

- 1) **March 30**
- 2) March 20
- 3) April 10
- 4) March 3

15. **Which space agency has detected the oldest black hole ever observed?**

- 1) **NASA**
- 2) ISRO
- 3) CDAC
- 4) CAN

16. **What is the 'Merriam-Webster's word of 2022?**

- 1) Permacrisis
- 2) **Gaslighting**
- 3) Homer
- 4) Metaverse

17. **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

18. Which company as developed AI chatbot Bard?

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

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

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

20. 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

21. If January 1, 1996, was Monday, what day of the week was January 1, 1997?

- 1) **Wednesday**
- 2) Thursday
- 3) Friday
- 4) Saturday

22. 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

23. 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

24. 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

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

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

26. 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.

27. 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**

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

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

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

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

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

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

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

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

32. **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

33. **SQL Views are also known as**

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

34. 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()
35. 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()
36. 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
37. 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
38. 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
39. Which of the following can be used to call a JavaScript Code Snippet?
- 1) RMI
 - 2) Trigger
 - 3) Preprocessor
 - 4) **Function**

40. **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

41. **Which of the following scoping type does JavaScript use?**

- 1) Sequential
- 2) Segmental
- 3) **Lexical**
- 4) Literal

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

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

46. 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

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

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

48. There is a CSS rule for paragraphs in a CSS file, p can be called?

- 1) **Selector**
- 2) Attribute
- 3) Property
- 4) Tag

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

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

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

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

51. Which of the following precedence order is correct in Python?

- 1) **Parentheses, Exponential, Multiplication, Division, Addition, Subtraction**
- 2) Multiplication, Division, Addition, Subtraction, Parentheses, Exponential
- 3) Division, Multiplication, Addition, Subtraction, Parentheses, Exponential
- 4) Exponential, Parentheses, Multiplication, Division, Addition, Subtraction

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

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

53. Which key helps us to establish the relationship between two tables?

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