Quantitative Aptitude

1. If the cost price of 15 items is equal to the selling price of 12 items, what is the profi percentage?
- a) 20%
- b) 25%
- c) 30%
- d) 40%
Answer: b) 25%
2. The difference between the compound interest and simple interest on ₹10,000 for 2 years at 10% per annum is:
- a) ₹100
- b) ₹110
- c) ₹120
- d) ₹150
Answer: b) ₹110
3. Two pipes A and B can fill a tank in 20 minutes and 30 minutes, respectively. If both are opened together, how much time will it take to fill the tank?
- a) 12 minutes
- b) 15 minutes
- c) 18 minutes
- d) 10 minutes

Answer: a) 12 minutes
4. What is the sum of the first 20 odd numbers?
- a) 200
- b) 210
- c) 400
- d) 420
Answer: b) 400
5. The area of a rectangle is 240 cm ² , and its length is 20 cm. Find its perimeter.
- a) 48 cm
- b) 50 cm
- c) 60 cm
- d) 62 cm
Answer: c) 60 cm
Logical Reasoning
6. What comes next in the series: 1, 2, 6, 24, 120, ?
- a) 360
- b) 600
- c) 720

- d) 840
Answer: c) 720
7. Select the odd one out:
- a) Triangle
- b) Square
- c) Rectangle
- d) Circle
Answer: d) Circle
8. A person walks 6 km North, then 8 km East. How far is he from the starting point?
8. A person walks 6 km North, then 8 km East. How far is he from the starting point? - a) 10 km
- a) 10 km
- a) 10 km - b) 12 km
- a) 10 km - b) 12 km - c) 14 km
- a) 10 km - b) 12 km - c) 14 km - d) 16 km
- a) 10 km - b) 12 km - c) 14 km - d) 16 km
- a) 10 km - b) 12 km - c) 14 km - d) 16 km
- a) 10 km - b) 12 km - c) 14 km - d) 16 km
- a) 10 km - b) 12 km - c) 14 km - d) 16 km Answer: a) 10 km
- a) 10 km - b) 12 km - c) 14 km - d) 16 km Answer: a) 10 km 9. If TOMATO is written as 8121315, how is POTATO written?
- a) 10 km - b) 12 km - c) 14 km - d) 16 km Answer: a) 10 km 9. If TOMATO is written as 8121315, how is POTATO written? - a) 7161315

Answer: a) 7161315
10. Which number replaces the question mark? 2, 3, 5, 7, ?, 13 - a) 9 - b) 10 - c) 11 - d) 12 Answer: c) 11
Technical MCQs
Programming
 11. Which of the following is not a programming language? - a) Python - b) HTML - c) Java - d) C++ Answer: b) HTML
12. Which keyword is used to define a function in Python?

- a) func

```
- b) def
 - c) define
 - d) function
 Answer: b) def
13. What is the output of the following code?
  ```python
 print(3 "Hello")
 . . .
 - a) HelloHelloHello
 - b) Hello Hello Hello
 - c) Hello Hello (with spaces)
 - d) Error
 Answer: c) Hello Hello Hello
14. Which of the following is an OOP concept?
 - a) Encapsulation
 - b) Recursion
 - c) Looping
 - d) Compilation
 Answer: a) Encapsulation
```

\_\_\_

## 15. What does SQL stand for?

- a) Standard Query Language
- b) Structured Query Language
- c) Simple Query Language
- d) None of the above

Answer: b) Structured Query Language

---

#### Database

16. What is the default port for MySQL?

- a) 3306
- b) 8080
- c) 1521
- d) 1433

Answer: a) 3306

---

- 17. Which of the following is a valid SQL statement?
  - a) SELECT FROM table\_name
  - b) GET ALL table\_name
  - c) FETCH ALL table\_name
  - d) FIND ALL table\_name

Answer: a) SELECT FROM table\_name

\_\_\_

18. Which command is used to delete all rows in a table?
- a) DELETE
- b) REMOVE
- c) DROP
- d) TRUNCATE
Answer: d) TRUNCATE
19. What is a primary key in a database?
- a) A column that uniquely identifies each row
- b) A column that stores the largest value
- c) A key to lock the database
- d) A backup file
Answer: a) A column that uniquely identifies each row
20. Which type of JOIN returns all rows from both tables, with NULLs where there is no match?
- a) INNER JOIN
- b) LEFT JOIN
- c) RIGHT JOIN
- d) FULL OUTER JOIN
Answer: d) FULL OUTER JOIN

## Networking

21. What does ip stand for in networking	stand for in networking?	<ol> <li>What does IP</li> </ol>
------------------------------------------	--------------------------	----------------------------------

- a) Internet Port
- b) Internet Protocol
- c) Internal Path
- d) Interconnected Protocol

Answer: b) Internet Protocol

---

- 22. Which layer of the OSI model is responsible for routing?
  - a) Transport
  - b) Data Link
  - c) Network
  - d) Application

Answer: c) Network

---

- 23. What is the full form of HTTP?
  - a) HyperText Transmission Protocol
  - b) HyperText Transfer Protocol
  - c) HyperText Transform Protocol
  - d) HyperText Translation Protocol

Answer: b) HyperText Transfer Protocol

-	-	-

24. Which of the following is not a valid IPv4 address?

- a) 192.168.1.1
- b) 255.255.255.255
- c) 10.0.0.1
- d) 256.100.50.25

Answer: d) 256.100.50.25

---

25. What is the default gateway?

- a) The router that connects your local network to the internet
- b) The DNS server address
- c) The IP address of your computer
- d) The subnet mask

Answer: a) The router that connects your local network to the internet

- 26. Which data structure uses LIFO (Last In, First Out)?
  - a) Queue
  - b) Stack
  - c) Linked List
  - d) Binary Tree

Answer: b) Stack

---

27. Which sorting algorithm is the fastest on average for large datasets?

- a) Bubble Sort
- b) Quick Sort
- c) Insertion Sort
- d) Selection Sort
Answer: b) Quick Sort
28. What is the time complexity of searching in a balanced binary search tree (BST)?
- a) O(n)
- b) O(log n)
- c) O(1)
- d) O(n <sup>2</sup> )
Answer: b) O(log n)
29. Which of the following is a NoSQL database?
- a) MySQL
- b) Oracle
- c) MongoDB
- d) PostgreSQL
Answer: c) MongoDB
30. Which command is used to check the current branch in Git?
- a) git branch

	- b) git status
-	- c) git show branch
-	- d) git checkout
,	Answer: a) git branch
31	. Which keyword in C++ is used to handle exceptions?
-	- a) throw
-	- b) try
-	- c) catch
_	- d) All of the above
,	Answer: d) All of the above
32	. What is the output of the following Python code?
,	```python
>	< = [1, 2, 3]
ļ	orint(x[-1])
,	
-	- a) 3
-	- b) 2
-	- c) 1
-	- d) Error

33. What is the use of the `continue` statement in programming?
- a) Stop the loop execution
- b) Skip the current iteration and move to the next
- c) Exit the program
- d) None of the above
Answer: b) Skip the current iteration and move to the next
34. Which language is used for artificial intelligence and machine learning?
- a) Python
- b) COBOL
- c) Assembly
- d) C
Answer: a) Python
35. Which of the following is not a cloud service provider?
- a) AWS
- b) Azure
- c) Google Cloud
- d) PostgreSQL
Answer: d) PostgreSQL

# Quantitative Aptitude (continued)

36. The sum of the first 30 natural numbers is:
- a) 465
- b) 480
- c) 500
- d) 515
Answer: a) 465
37. If a person travels 120 km at a speed of 40 km/h and returns at 30 km/h, what is the average speed for the entire journey?
- a) 34.28 km/h
- b) 35 km/h
- c) 37.5 km/h
- d) 36 km/h
Answer: a) 34.28 km/h
38. If a number is doubled, its square increases by 96. What is the number?
- a) 4
- b) 6
- c) 8
- d) 10
Answer: b) 6

39. What is the least number that is divisible by all numbers between 1 and 10?
- a) 120
- b) 180
- c) 2520
- d) 360
Answer: c) 2520
40. The ratio of the present ages of A and B is 3:5. In 10 years, their ages will be in the ratio 2:3. What is A's current age?
- a) 15 years
- b) 18 years
- c) 20 years
- d) 25 years
Answer: a) 15 years
<del></del>
Logical Reasoning (continued)
41. What comes next in the series: 2, 4, 8, 16, ?
- a) 24
- b) 30
- c) 32
- d) 36

Answer: c) 32
42. Find the odd one out: 64, 49, 36, 24
- a) 64
- b) 49
- c) 36
- d) 24
Answer: d) 24
43. Pointing to a photograph, a man says, "She is the only daughter of my father's only son." How is the woman related to the man?
- a) Sister
- b) Cousin
- c) Daughter
- d) Niece
Answer: a) Sister
<del></del>
44. If BLUE is written as 25121205, how is GREEN written?
- a) 7175145
- b) 7145145
- c) 8155145
- d) 7144155

Answer: b) 7145145
45. Which number replaces the question mark? 5, 10, 20, 40, ?
- a) 50
- b) 80
- c) 70
- d) 60
Answer: b) 80
Networking (continued)
46. Which protocol is used to transfer files over the Internet?
- a) HTTP
- b) FTP
- c) SMTP
- d) SNMP
Answer: b) FTP
47. What does DNS stand for?
- a) Domain Name System
- b) Data Network System

- c) Domain Network Server

- d) Data Name Server
Answer: a) Domain Name System
48. What is the default port for HTTPS?
- a) 80
- b) 8080
- c) 443
- d) 21
Answer: c) 443
49. Which of the following is not a valid network topology?
- a) Star
- b) Ring
- c) Linear
- d) Bus
Answer: c) Linear
<del></del>
50. What is the role of a router in networking?
- a) Connects different networks

- b) Provides internet to devices

- d) All of the above

- c) Transmits data packets between devices

Answer: d) All of the above

---