

Spardhaguru Skill Edge Aptitude Academy

1st Floor, 608, Panchamantra Rd, P and T Block, Jayanagar, Kuvempunagara, Mysuru, Karnataka 570023

DAILY MOCK TEST | Code: SGIPL22102022C

Date: _____

Batch: _____

Duration: _____

Student Details

Name: _____

No of Questions Attempt: _____

Start Time: _____

End Time: _____

Test Rules & Scoring

Scoring Scheme: +1 for correct answers | -0.25 for incorrect responses.

Writing Tool: Blue or black ballpoint pen only.

Test Discipline: Start only upon the invigilator's signal. Zero tolerance for malpractice.

Handover: Submit your response sheet to the invigilator before exiting the hall.

Office Use Only

Score Obtained: /

Invigilator Signature: _____

SPARDHAGURU INDIA PRIVATE LIMITED

CIN: U80904KA2022PTC166444 |

Registration No.: 166444

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Section 1: Simplification & Approximation (Q1 – Q10)

Q1. 45% of 1400 + 36% of 750 – ? = 425

- A. 475
- B. 485
- C. 465
- D. 495
- E. 505

Q2. $\sqrt{1089} + \sqrt{?} = (19)^2 - 316$

- A. 144
- B. 169
- C. 196
- D. 225
- E. 256

Q3. $\frac{18 \times 14 - 42}{7} + 12 \times 5 = ?$

- A. 80
- B. 90
- C. 85
- D. 95
- E. 75

Q4. 28.56% of 1750 + 37.5% of 640 = ?

- A. 720
- B. 740
- C. 760
- D. 750
- E. 730

Q5. $15.5 \times 24 - 18.5 \times 16 = ?$

- A. 76
- B. 82
- C. 72
- D. 68
- E. 84

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Q6. $(36^2 - 14^2) \div 25 + ? = 120$

- A. 74
- B. 76
- C. 78
- D. 82
- E. 86

Q7. $\sqrt[3]{4096} \times \sqrt{625} \div 20 + 3^4 = ?$

- A. 97
- B. 99
- C. 101
- D. 103
- E. 95

Q8. 62.5% of 960 + $83\frac{1}{3}\%$ of 720 = ?

- A. 1150
- B. 1200
- C. 1220
- D. 1180
- E. 1240

Q9. $(1248 \div 24) \times 1.5 + 48 = ?^2$

- A. 11
- B. 12
- C. 13
- D. 14
- E. 15

Q10. $3\frac{1}{4} + 2\frac{1}{2} - 1\frac{5}{8} = ?$

- A. $4\frac{1}{8}$
- B. $4\frac{3}{8}$
- C. $3\frac{7}{8}$
- D. $4\frac{5}{8}$
- E. $3\frac{5}{8}$

Section 2: Quadratic Equations (Q11 - Q18)

Directions (Q11-Q18): In each question, two equations numbered I and II are given. Solve both equations and mark the relation between x and y.

Options:

1. $x > y$
2. $x < y$
3. $x \geq y$
4. $x \leq y$
5. $x = y$ or relationship cannot be established (CND)

Q11.

I. $x^2 - 13x + 40 = 0$

II. $y^2 - 17y + 72 = 0$

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

Q12.

I. $x^2 + 11x + 30 = 0$

II. $y^2 + 7y + 12 = 0$

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

Q13.

I. $2x^2 - 7x + 6 = 0$

II. $2y^2 - 9y + 10 = 0$

- A. 1
- B. 2
- C. 3
- D. 4

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E. 5

Q14.

I. $x^2 - 9 = 0$

II. $y^2 - 6y + 9 = 0$

A. 1

B. 2

C. 3

D. 4

E. 5

Q15.

I. $x^2 - 16x - 36 = 0$

II. $y^2 + 11y - 26 = 0$

A. 1

B. 2

C. 3

D. 4

E. 5

Q16.

I. $3x^2 + 10x + 8 = 0$

II. $2y^2 + 11y + 15 = 0$

A. 1

B. 2

C. 3

D. 4

E. 5

Q17.

I. $x = \sqrt{576}$

II. $y^2 = 576$

A. 1

B. 2

C. 3

D. 4

E. 5

Q18.

I. $x^2 - 19x + 88 = 0$

II. $y^2 - 25y + 156 = 0$

A. 1

B. 2

C. 3

D. 4

E. 5

Section 3: Missing & Wrong Number Series (Q19 – Q26)

Q19. Find the missing number:

7, 9, 19, 61, 249, ?

A. 1241

B. 1251

C. 1245

D. 1255

E. 1261

Q20. Find the missing number:

12, 14, 31, 97, 393, ?

A. 1969

B. 1971

C. 1975

D. 1980

E. 1965

Q21. Find the missing number:

18, 27, 49, 88, 148, ?

A. 231

B. 233

C. 235

D. 237

E. 239

Q22. Find the missing number:

600, 591, 564, 501, 376, ?

A. 160

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- B. 175
- C. 150
- D. 180
- E. 165

Q23. Find the missing number:

1000, 500, 250, 125, 62.5, ?

- A. 31.75
- B. 31.25
- C. 30.25
- D. 32.5
- E. 30.75

Q24. Find the wrong number in the given series:

4, 11, 25, 53, 109, 222

- A. 11
- B. 25
- C. 53
- D. 109
- E. 222

Q25. Find the wrong number in the series:

6, 7, 16, 51, 208, 1045

- A. 7
- B. 16
- C. 51
- D. 208
- E. 1045

Q26. Find the missing number:

14, 20, 32, 52, 82, ?

- A. 124
- B. 126
- C. 122
- D. 128
- E. 130

Section 4: Data Interpretation (Q27 – Q36)

Set 1: Pie Chart (Distribution of Expenditure of a Company)

A company spent a total budget of 36,00,000 across 5 departments:

- **R&D:** 25%
- **Marketing:** 20%
- **Operations:** 30%
- **HR:** 15%
- **Logistics:** 10%

Q27. What is the central angle corresponding to the expenditure on R&D?

- A. 72°
- B. 90°
- C. 108°
- D. 80°
- E. 54°

Q28. What is the difference between the expenditure incurred on Operations and Logistics?

- A. 7,00,000
- B. 7,20,000
- C. 7,50,000
- D. 6,80,000
- E. 7,40,000

Q29. Expenditure on Marketing is what percent less than the expenditure on Operations?

- A. 30%
- B. $33\frac{1}{3}\%$
- C. 25%
- D. 40%
- E. 20%

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Q30. If next year the HR budget increases by 20% and the total company budget remains constant, what is the new expenditure on HR?

- A. 6,48,000
- B. 6,24,000
- C. 5,96,000
- D. 6,12,000
- E. 6,36,000

Q31. Find the ratio between the combined expenditure of Marketing and HR to that of R&D and Logistics.

- A. 1: 1
- B. 7: 6
- C. 5: 4
- D. 3: 2
- E. 4: 3

Set 2: Missing Table DI (College Placements)

Branch	Total Students	Ratio (Boys : Girls)	% of Total Placed
CS	400	5: 3	75%
IT	300	3: 2	80%
ECE	250	3: 2	60%
Mech	350	4: 3	50%
Civil	200	1: 1	45%

Q32. Find the total number of unplaced students from CS and IT combined.

- A. 150

- B. 160
- C. 170
- D. 180
- E. 140

Q33. What is the ratio of girls in CS to girls in Mech?

- A. 1: 1
- B. 3: 2
- C. 4: 3
- D. 5: 4
- E. 2: 3

Q34. Number of placed students in ECE is what percent of the placed students in IT?

- A. 60%
- B. 62.5%
- C. 66.67%
- D. 70%
- E. 55%

Q35. What is the average number of boys across IT, ECE, and Civil?

- A. 140
- B. 143.33
- C. 145
- D. 150
- E. 138.67

Q36. If in Mech, 60% of the placed students are boys, find the number of placed girls in Mech.

- A. 65
- B. 70
- C. 75
- D. 80
- E. 85

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Section 5: Arithmetic Word Problems (Q37 – Q50)

Q37. (Percentages & Ratio)

Sonu's income is 20% more than Monu's income, and Monu's income is 10% less than Raghu's income. If Raghu's income is 50,000, find Sonu's income.

- A. 52,000
- B. 54,000
- C. 55,000
- D. 56,000
- E. 53,500

Q38. (Ages)

The ratio of the present ages of A and B is 7:6. Ten years ago, the ratio of their ages was 5:4. What will be the sum of their ages 5 years hence?

- A. 65 years
- B. 70 years
- C. 75 years
- D. 80 years
- E. 85 years

Q39. (Simple & Compound Interest)

A sum of money lent at compound interest amounts to 2,420 in 2 years and to 2,662 in 3 years compounded annually. Find the rate of interest per annum.

- A. 8%
- B. 10%
- C. 12%
- D. 12.5%
- E. 15%

Q40. (Boats & Streams)

Speed of a boat in still water is 12 km/h and speed of the stream is 3 km/h. If the boat travels upstream to point P and returns downstream to the starting point in a total time of 8 hours, what is the one-way distance to point P?

- A. 40 km
- B. 45 km
- C. 48 km
- D. 50 km
- E. 54 km

Q41. (Time & Work)

A can complete a work in 15 days and B can do it in 20 days. They work together for 4 days, and then A leaves. In how many more days will B finish the remaining work?

- A. $10\frac{1}{3}$ days
- B. $10\frac{2}{3}$ days
- C. 11 days
- D. 12 days
- E. 9 days

Q42. (Pipes & Cisterns)

Two pipes A and B can fill a cistern in 12 hours and 18 hours respectively. A waste pipe C can empty the full tank in 36 hours. If all three pipes are opened together, how long will it take to fill the tank?

- A. 8 hours
- B. 9 hours
- C. 7.5 hours
- D. 10 hours
- E. 8.5 hours

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Q43. (Profit, Loss & Discount)

An article is marked 30% above its cost price. A discount of 15% is offered on the marked price. What is the net profit percentage?

- A. 10%
- B. 10.5%
- C. 11%
- D. 11.5%
- E. 12%

Q44. (Partnership)

A and B start a business. A invests 12,000 for 8 months and B invests 16,000 for 6 months. If the total annual profit is 9,600, find A's share of the profit.

- A. 4,800
- B. 4,600
- C. 5,000
- D. 5,200
- E. 4,400

Q45. (Mixtures & Alligation)

In what ratio must a grocer mix tea at 180 per kg and tea at 230 per kg so that by selling the mixture at 231 per kg he gains a 10% profit?

- A. 2: 3
- B. 3: 2
- C. 3: 4
- D. 4: 3
- E. 1: 2

Q46. (Problems on Trains)

A train travelling at 72 km/h crosses a 250 m long platform in 26 seconds. What is the length of the train?

- A. 250 m
- B. 270 m
- C. 280 m
- D. 300 m
- E. 260 m

Q47. (Mensuration 2D)

A rectangular plot is 24 m long and 16 m wide. A running path of 2 m uniform width is laid all around outside the plot. What is the area of the path?

- A. 160 m²
- B. 176 m²
- C. 184 m²
- D. 192 m²
- E. 200 m²

Q48. (Probability)

A bag contains 5 red, 4 blue, and 3 green balls. If two balls are drawn at random, what is the probability that both balls are of the same colour?

- A. $\frac{17}{66}$
- B. $\frac{19}{66}$
- C. $\frac{7}{22}$
- D. $\frac{5}{22}$
- E. $\frac{23}{66}$

Q49. (Simple Interest)

A man invests 6,000 in a bank offering Simple Interest. At what rate of interest per annum must he invest for 4 years so that the interest earned equals $\frac{2}{5}$ th of the principal?

- A. 8%
- B. 10%

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- C. 12%
- D. 9%
- E. 11%

Q50. (Averages)

The average weight of 24 students in a class is 45 kg. If the teacher's weight is included, the average weight increases by 1 kg. What is the teacher's weight?

- A. 68 kg
- B. 70 kg
- C. 72 kg
- D. 69 kg
- E. 71 kg

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Best Wishes

Murthy sir (MSM)

Founder & Aptitude Trainer

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