

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

Registered Office: No. 8, 24th Block, Near Amrutha

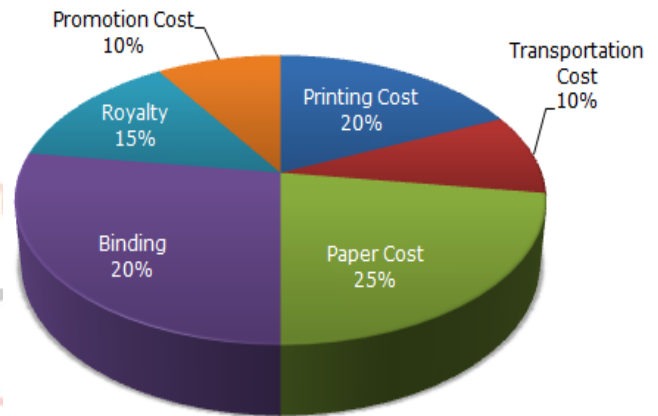
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Pie Chart – 1

Directions to Solve: The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it. Various Expenditures (in percentage) Incurred in Publishing a Book



Q1. If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be amount of royalty to be paid for these books?

- a) Rs. 19,450 b) Rs. 21,200
c) Rs. 22,950 d) Rs. 26,150

Q2. What is the central angle of the sector corresponding to the expenditure incurred on Royalty?

- a) 15° b) 24° c) 54° d) 48°

Q3. The price of the book is marked 20% above the C.P. If the marked price of the book is Rs. 180, then what is the cost of the paper used in a single copy of the book?

- a) Rs. 36 b) Rs. 37.50
c) Rs. 42 d) Rs. 44.25

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Q4. If 5500 copies are published and the transportation cost on them amounts to Rs. 82500, then what should be the selling price of the book so that the publisher can earn a profit of 25%?

- a) Rs. 187.50 b) Rs. 191.50
c) Rs. 175 d) Rs. 180

Q5. Royalty on the book is less than the printing cost by:

- a) 5% b) $33\frac{1}{5}\%$
c) 20% d) 25%

Q6. If the difference between the two expenditures are represented by 18° in the pie-chart, then these expenditures possibly are

- a) Binding Cost and Promotion Cost
b) Paper Cost and Royalty
c) Binding Cost and Printing Cost
d) Paper Cost and Printing Cost

Q7. For an edition of 12,500 copies, the amount of Royalty paid by the publisher is Rs. 2,81,250. What should be the selling price of the book if the publisher desires a profit of 5%?

- a) Rs. 152.50 b) Rs. 157.50
c) Rs. 162.50 d) Rs. 167.50

Q8. If for an edition of the book, the cost of paper is Rs. 56250, then find the promotion cost for this edition.

- a) Rs. 20,000 b) Rs. 22,500
c) Rs. 25,500 d) Rs. 28,125

Q9. Which two expenditures together have central angle of 108° ?

- a) Biding Cost and Transportation Cost
b) Printing Cost and Paper Cost
c) Royalty and Promotion Cost
d) Binding Cost and Paper Cost

Simplification (Most Expected)

Q 10 . What should come in place of question mark in the following number series?

$$18 \times \frac{9}{23} \times 2346 - \frac{11}{18} \text{ of } 1512 = ?$$

A. 15615 B. 15590
C. 15610 D. 15600

Q 11. What should come in place of question mark in the following number series?

$$2852 \div (16\% \text{ of } 387.5) = ? \times 23$$

A. 2 B. 8
C. 6 D. 4

Q12. What should come in place of question mark in the following number series?

$$70\% \text{ of } 45\% \text{ of } 23000 + \sqrt[3]{36^2 + 181 \times 8} = ?$$

A. 7259 B. 7263
C. 7257 D. 7261

Q13. What should come in place of question mark in the following number series?

$$\frac{918 \div 27 + \sqrt{?}}{\frac{1}{19} \text{ of } 2128 - 9^2} = 1836 \div 612$$

A. 3483 B. 3477
C. 3479 D. 3481

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Q14. What should come in place of question mark in the following number series?

$$4857 - ?^3 = 24352 \div 32$$

- A. 13 B. 15
C. 18 D. 16

Q15. What should come in place of question mark in the following number series?

$$(55 \times 36) + (6^3 \times (1224 \div 34)) = ? \times 28$$

- A. 345.21 B. 348.43
C. 346.56 D. 350.34

Q16. What should come in place of question mark in the following number series?

$$6\frac{9}{16} + 285 - (4810 \div 26) = ?$$

A. $106\frac{9}{16}$ B. $105\frac{7}{16}$
C. $105\frac{3}{16}$ D. $107\frac{11}{16}$

Q17. What should come in place of question mark in the following number series?

$$(23)^{7.5} \times (529)^{3.1} \times (23)^{1.3} \div (12167)^4 = (23)^?$$

- A. 5 B. 3.8
C. 3 D. 1.6

Q18. What should come in place of question mark in the following number series?

$$(676)^{\frac{1}{2}} \times (2197)^{-\frac{1}{3}} + (528 \div 22 \div 3) = ?$$

- A. 19 B. 14
C. 10 D. 13

Q 19. What should come in place of question mark in the following number series?

$$8 \times 724 \times ? = 18^2 \times 48^2 + 10804$$

- A. 130.75 B. 127.36
C. 132.12 D. 127.45

Quadratic Equations (Most Expected)

Direction:- In these questions, two equations numbered I and II are given. You have to solve both equations and mark the appropriate option. Give answer:

Q 20.

I. $9x^2 + 45x + 26 = 0$

II. $7y^2 - 59y - 36 = 0$

Options :

1. if $x > y$
2. if $x \leq y$
3. if $x < y$
4. if $x \geq y$
5. if $x = y$ or relationship between x and y can't be established.

Q 21.

I. $8x - 3y = 85$

II. $4x - 5y = 67$

Options :

1. if $x > y$
2. if $x \leq y$
3. if $x < y$
4. if $x \geq y$
5. if $x = y$ or relationship between x and y can't be established.

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Q 22

I. $x - \sqrt{2401} = 0$

II. $y^2 - 2401 = 0$

Options:

1. if $x > y$

2. if $x \leq y$

3. if $x < y$

4. if $x \geq y$

5. if $x = y$ or relationship between x and y can't be established.

Q 23.

I. $2x^2 + 13x + 21 = 0$

II. $3y^2 + 34y + 63 = 0$

Options:

1. if $x > y$

2. if $x \leq y$

3. if $x < y$

4. if $x \geq y$

5. if $x = y$ or relationship between x and y can't be established.

Q 24.

I. $12x^2 + 22x + 8 = 0$

II. $4y^2 - y - 3 = 0$

Options:

1. if $x > y$

2. if $x \leq y$

3. if $x < y$

4. if $x \geq y$

5. if $x = y$ or relationship between x and y can't be established.

Arithmetic Questions

Q 26. Find the smallest positive integer N which leaves a remainder of 5 when divided by 12, a remainder of 9 when

divided by 16, and a remainder of 1 when divided by 20.

A) 185

B) 149

C) 141

D) 161

Directions: Given table shows the total number of boys & girls in a class in 5 different years and percentage of boys & girls who participated in an event and percentage of total students who did not participate in event. Some data are missing which you have to calculate as per the information provided in question. Read the data carefully and answer the questions.

Year	Total number of Boys & Girls In class	% of boys participate in event	% of girls participate in event	% of (boys + girls) not participate in event
2015	---	65	---	30
2016	360	---	25	15
2017	180	25	---	25
2018	300	---	80	10
2019	---	45	---	40

Q 27. Find average no. of students who didn't participate in 2016, 2017 & 2018

(a) 39

(b) 44

(c) 41

(d) 46

(e) 43

Q 28. A watermelon is cut in two parts in ratio 3 : 5 according to the weight. If the bigger part is again cut into two parts in ratio of 5 : 7, then the ratio of these three parts is

(a) 15 : 25 : 26

(b) 5 : 7 : 9

(c) 3 : 5 : 7

(d) 36 : 25 : 35

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Q 29. Sonu invested 10% more than the investment of Mona and Mona invested 10% less than the investment of Raghu. If the total investment of all the three persons is ₹ 5780, then find the investment of Raghu.

- (a) ₹ 2010
- (b) ₹ 2000
- (c) ₹ 2100
- (d) ₹ 2210
- (e) None of the above

Q 30. Ravi and Sneha got married 10 years ago and at that time ratio of their ages was 5:4. Ratio of present age of Ravi and Sneha is 7:6. After marriage they had seven children including a triplet and a twin. The ratio of present age of triplet, twin, sixth and the seventh child is 4:3:2:1. Find the largest possible value of the present total age of the family.

- (a) 121
- (b) 107
- (c) 101
- (d) 93
- (e) None of the above

Q 31. Dinesh's monthly income is four times Suresh's monthly income. Suresh's monthly income is twenty per cent more than Jyoti's monthly income. Jyoti's monthly income is ₹ 22000. What is Dinesh's monthly income?

- (a) ₹ 106500
- (b) ₹ 105600
- (c) ₹ 104500
- (d) ₹ 105400

(e) None of these

Q 32. A sum of money lent at compound interest amounts to ₹ 1460 in 2 yr and to ₹ 1606 in 3 yr. The rate of interest per annum is

- (a) 12%
- (b) 46%
- (c) 10.5%
- (d) 10%

Q 33. . Speed of a boat in still water is 9 km/hr and the speed of the stream is 1.5 km/hr. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is

- a) 16 hours
- b) 18 hours
- c) 20 hours
- d) 24 hours

Q 34. A swimming pool is filled by 3 pipes. The 1st 2 pipe fill the pool same time. During the 3rd pipe can fill $\frac{2}{3}$ of the pool. 2nd pipe can fill 5 hrs faster than 1st pipe and 1 hour slower than 3rd pipe. Find the time taken by each pipe to fill the pool.

- a)) 17, 2, 8
- b) 4, 5, 17
- c) 4, 17, 3
- d) 15, 10, 9

Q 35. A rectangular courtyard is 20 m long and 15 m wide. The cost of paving it with bricks is ₹20 per m². A man has ₹4,000 in a savings account. At what Rate of Simple Interest must he invest this money for 3 years so that the interest earned covers exactly half the cost of paving?

- a) 20%
- b) 25%
- c) 15%
- d) 30%

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