

QUANTITATIVE APTITUDE

Questions asked in XLRI Examination held on January 9, 2005

Directions: In each question below, choose the correct alternative from the four options provided.

1. Last year Mr Basu bought two scooters. This year he sold both of them for Rs 30,000 each. On one, he earned 20% profit, and on the other he made a 20% loss. What was his net profit or loss?

- (A) He gained less than Rs 2000
(B) He gained more than Rs 2000
(C) He lost less than Rs 2000
(D) He lost more than Rs 2000

2. In an examination, the average marks obtained by students who passed was $x\%$, while the average of those who failed was $y\%$. The average marks of all students taking the exam was $z\%$. Find in terms of x , y and z , the percentage of students taking the exam who failed.

- (A) $\frac{(x-z)}{(y-x)}$ (B) $\frac{(x-z)}{(y-x)}$
(C) $\frac{(y-x)}{(x-y)}$ (D) $\frac{(y-z)}{(x-z)}$

3. Three circles A, B and C have a common centre O. A is the inner circle, B middle circle and C is outer circle. The radius of the outer circle C, OP cuts the inner circle at X and middle circle at Y such that $OX = XY = YP$. The ratio of the area of the region between the inner and middle circles to the area of the region between the middle and outer circle is:

- (A) $\frac{1}{3}$ (B) $\frac{2}{5}$
(C) $\frac{3}{5}$ (D) $\frac{1}{5}$

4. The sides of a rhombus ABCD measure 2 cm each and the difference between two angles is 90° then the area of the rhombus is:

- (A) $\sqrt{2}$ sq cm (B) $2\sqrt{2}$ sq cm
(C) $3\sqrt{2}$ sq cm (D) $4\sqrt{2}$ sq cm

5. If S_n denotes the sum of the first n terms in an Arithmetic Progression and $S_3 : S_6 = 1 : 10$ then the ratio of first term to fourth term is:

- (A) 1 : 3 (B) 2 : 3
(C) 1 : 4 (D) 1 : 5

6. The curve $y = 4x^2$ and $y^2 = 2x$ meet at the origin O

and at the point P, forming a loop. The straight line OP divides the loop into two parts. What is the ratio of the areas of the two parts of the loop?

- (A) 3 : 1 (B) 3 : 2
(C) 2 : 1 (D) 1 : 1

7. How many numbers between 1 to 1000 (both excluded) are both squares and cubes?

- (A) none (B) 1
(C) 2 (D) 3

8. An operation 'S' is defined as follows:
For any two positive integers x and y ,

$$xSy = \sqrt{\left(\sqrt{\frac{x}{y}} + \sqrt{\frac{y}{x}}\right)} \text{ then which of the following is an}$$

integer?

- (A) 450 (B) 4516
(C) 454 (D) None of the above

9. If $f(x) = \cos(x)$ then 50th derivative of $f(x)$ is:

- (A) $\sin x$ (B) $-\sin x$
(C) $\cos x$ (D) $-\cos x$

10. If a , b and c are three real numbers, then which of the following is NOT true?

- (A) $|a+b| \leq |a| + |b|$
(B) $|a-b| \leq |a| + |b|$
(C) $|a-b| \leq |a| - |b|$
(D) $|a-c| \leq |a-b| + |b-c|$

11. If $R = \{(1, 1), (2, 2), (1, 2), (2, 1), (3, 3)\}$ and $S = \{(1, 1), (2, 2), (2, 3), (3, 2), (3, 3)\}$ are two relations in the set $X = \{1, 2, 3\}$, the incorrect statement is:

- (A) R and S are both equivalence relations
(B) $R \cap S$ is an equivalence relations
(C) $R^{-1} \cap S^{-1}$ is an equivalence relations
(D) $R \cup S$ is an equivalence relations

12. If $x > 8$ and $y > -4$, then which one of the following is always true?

- (A) $xy < 0$
(B) $x^2 < -y$
(C) $-x < 2y$
(D) $x > y$

13. For $n = 1, 2, \dots$ let $T_n = 1^2 + 2^2 + \dots + n^2$, which one of the following statements is correct?

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Table of Contents Zycus Aptitude Test Papers

1. Understanding the eBook Zycus Aptitude Test Papers
 - The Rise of Digital Reading Zycus Aptitude Test Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Zycus Aptitude Test Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Zycus Aptitude Test Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Zycus Aptitude Test Papers
 - Personalized Recommendations
 - Zycus Aptitude Test Papers User Reviews and Ratings

- Zycus Aptitude Test Papers and Bestseller Lists
- 5. Accessing Zycus Aptitude Test Papers Free and Paid eBooks
 - Zycus Aptitude Test Papers Public Domain eBooks
 - Zycus Aptitude Test Papers eBook Subscription Services
 - Zycus Aptitude Test Papers Budget-Friendly Options
- 6. Navigating Zycus Aptitude Test Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Zycus Aptitude Test Papers Compatibility with Devices
 - Zycus Aptitude Test Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Zycus Aptitude Test Papers
 - Highlighting and Note-Taking Zycus Aptitude Test Papers
 - Interactive Elements Zycus Aptitude Test Papers
- 8. Staying Engaged with Zycus Aptitude Test Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Zycus Aptitude Test Papers
- 9. Balancing eBooks and Physical Books Zycus Aptitude Test Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Zycus Aptitude Test Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Zycus Aptitude Test Papers
 - Setting Reading Goals Zycus Aptitude Test Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Zycus Aptitude Test Papers
 - Fact-Checking eBook Content of Zycus Aptitude Test Papers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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