

BOOKS



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Q1. A milk seller has milk of Rs 100 per litre, in what ratio should water be mixed in that milk so that after selling the mixture at Rs 80 per litre, he gets a profit of 50%?

- (a) 7 : 8
- (b) 7 : 9
- (c) 9 : 7
- (d) 7 : 5
- (e) 5 : 7

Q2. A person has Rs 8400. He lent a part of it at 4% and the remaining at $\frac{10}{3}\%$ at simple interest. His total annual interest was Rs 294. Find the sum he lent at 4%

- (a) Rs 2310
- (b) Rs 2110
- (c) Rs 2500
- (d) Rs 2100
- (e) Rs 1900

Q3. 600 g of sugar solution has 40% sugar in it. How much sugar should be added to make it 50% in the solution?

- (a) 160 g
- (b) 120 g
- (c) 130 g
- (d) 140 g
- (e) 170 g

Q4. Gita buys a plot of land for Rs 36000. She sells $\frac{2}{5}$ th of it at a loss of 6%. She wants to make a profit of 10% on the whole transaction by selling the remaining land. The gain % on the remaining land is

- (a) 20 %
- (b) $\frac{62}{3}\%$
- (c) 14 %
- (d) 7 %
- (e) $16\frac{2}{3}\%$

Q5. How many kg of sugar worth Rs. 25 per kg must be blended with 30 kg of sugar worth Rs. 30 per kg so that by selling the blended variety at Rs. 30 per kg there should be gain of 10%?

- (a) 30 kg
- (b) 32 kg
- (c) 36 kg
- (d) 42 kg
- (e) 34 kg

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BILINGUAL

Q6. Reshma purchased a T.V. and a mobile phone for Rs 12,000 and Rs 10,000 respectively. She sold the T.V. at a loss of 12 percent and mobile phone at a profit of 8 percent. What is her overall loss/profit?

- (a) Loss of Rs 280
- (b) Profit of Rs 2,160
- (c) Loss of Rs 240
- (d) Profit of Rs 2,060
- (e) None of these

Q7. A man sold a wristwatch for Rs 2400 at a loss of twenty five percent. At what rate should he have sold the wristwatch to earn a profit of twenty five percent?

- (a) Rs 3,600
- (b) Rs 4,000
- (c) Rs 3,500
- (d) Rs 3,800
- (e) None of these

Q8. The ratio of copper and nickel by weight in the two alloys X and Y are 2 : 7 and 5 : 4. How many kilogram of the alloy X and Y are required to make 42 kg of new alloy Z in which the ratio of copper and nickel is same?

- (a) 6 kg and 36 kg
- (b) 10 kg and 32 kg
- (c) 7 kg and 35 kg
- (d) 8 kg and 34 kg
- (e) 5 kg and 25 kg

Q9. A man covers half of his journey by train at 60 km/hr, half of the remainder by bus at 30 km/hr and the rest by cycle at 10 km/hr. Find his average speed during the entire journey.

- (a) 36 kmph
- (b) 30 kmph
- (c) 18 kmph
- (d) 24 kmph
- (e) 28 kmph

Q10. There are 5 consecutive odd numbers. If the difference between square of the average of first two odd number and the square of the average of last two odd numbers is 492, what is the smallest odd number?

- (a) 37
- (b) 42
- (c) 41
- (d) 35
- (e) 39



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Directions (11-15): The following table shows total no. of selected participants and % distribution of those selected participants of a city in all the five years. Study the table carefully to answer the related questions.

Years	Percentage of participants				
	Delhi (450)	Mumbai (750)	Lucknow (480)	Vadodara (640)	Bhopal (360)
2006	20%	16%	10%	20%	5%
2007	24%	20%	15%	15%	5%
2008	16%	24%	20%	10%	25%
2009	26%	12%	25%	25%	30%
2010	14%	28%	30%	30%	25%

Q11. How many participants are selected in DID in 2007 from all the cities together?

- (a) 333
- (b) 444
- (c) 344
- (d) 544
- (e) 555

Q12. No. of participants selected from Mumbai in the year 2006 is what percent more or less than that of Vadodara in the same year?

- (a) 6.5% more
- (b) 6.25% more
- (c) 6.25% less
- (d) 6.5% less
- (e) 8.25% more

Q13. What is the average no. of participants in the year 2008 from all the cities together who get selected in DID? (approximately)

- (a) 110
- (b) 95
- (c) 105
- (d) 100
- (e) 80

Q14. What is the ratio of participants selected from Lucknow in 2009 and 2010 together to those who were selected from Bhopal in the years 2009 and 2010 together?

- (a) 3 : 4
- (b) 4 : 3
- (c) 2 : 3
- (d) 3 : 2
- (e) 5 : 4



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Q15. If in 2005, the no. of selected participants from Delhi and Mumbai were 20% and 40% less than that of 2006 respectively then find the difference between selected participants of Delhi and Mumbai in the year 2005?

- (a) 8
- (b) 20
- (c) 16
- (d) 4
- (e) 0

Direction (16–20): What will come in the place of question (?) mark in the following number series:

Q16. 22, 26, 53, 69, 194, ?

- (a) 248
- (b) 265
- (c) 258
- (d) 230
- (e) 232

Q17. 4, 8, 24, 96, 480, ?

- (a) 2780
- (b) 2880
- (c) 2680
- (d) 2560
- (e) 2820

Q18. 11, 15, 21, 29, 39, ?

- (a) 51
- (b) 53
- (c) 52
- (d) 49
- (e) 50


Q19. 11, 14, 22, 40, 73, ?

- (a) 128
- (b) 118
- (c) 126
- (d) 125
- (e) 120

Q20. 112, 87, 67, 52, 42, ?

- (a) 39
- (b) 35
- (c) 36
- (d) 38
- (e) 37




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Q21. Shopkeeper buys 3 articles for Rs 2100 (CP of each article is same). If he made overall profit of 20% on selling all the three articles, then find the profit obtained on selling one article.

- (a) Rs 140
- (b) Rs 170
- (c) Rs 280
- (d) Rs 70
- (e) Rs 105

Q22. Three partners A, B and C together invested Rs 6500 in a business for same period of time. Profit of A, B and C is Rs 1440, 2160 and 2640 respectively. Find the total investment of A and B together?

- (a) Rs 3575
- (b) Rs 3750
- (c) Rs 3225
- (d) Rs 3375
- (e) Rs 3275

Q23. A boat running upstream takes 20 minutes to cover a distance of 12 km, while it takes 22 minutes to cover a distance of 22 km in downstream. Find the speed of current.

- (a) 10 km/hr
- (b) 11 km/hr
- (c) 9 km/hr
- (d) 12 km/hr
- (e) 8 km/hr

Q24. 15 men can do a work in 12 days. 18 women can do the same work in 20 days. In how many days 8 men & 12 women together will complete that work?

- (a) $11\frac{6}{7}$ days
- (b) $13\frac{6}{7}$ days
- (c) $10\frac{6}{7}$ days
- (d) $12\frac{6}{7}$ days
- (e) $15\frac{6}{7}$ days

Q25. A sum of money fetches Rs 240 as simple interest at the rate of 5 p.c.p.a. after 6 years. What is that sum?

- (a) Rs 200
- (b) Rs 400
- (c) Rs 800
- (d) Rs 1,200
- (e) Rs 1,000

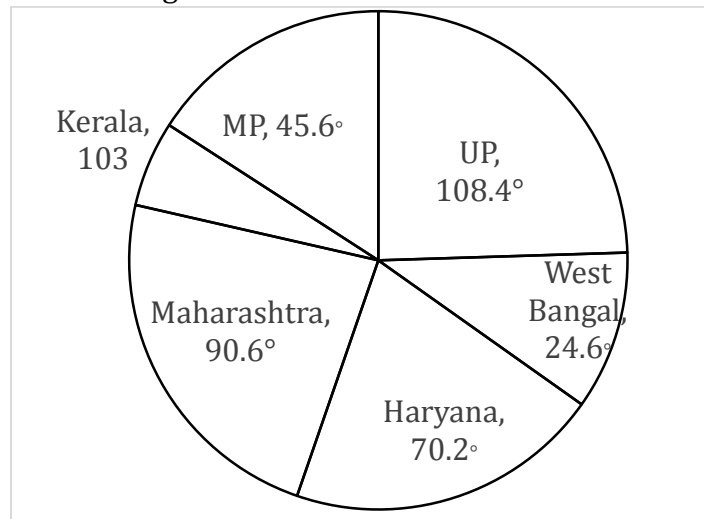
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Direction (26-30): The following pie-chart shows the no. of persons (in degree) who were awarded for their bravery and intelligence during critical conditions in the year 2017 in various states. Study the graph carefully to answer the following question.

Note: Some data in pie-chart are in degree and some are in absolute value.



Q26. Find the total no. of person who were awarded for their bravery and intelligence in the state UP, Maharashtra and West Bengal together.

- (a) 1218
- (b) 1118
- (c) 1018
- (d) 1128
- (e) 1108

Q27. Total persons who were awarded for their bravery and intelligence in states Haryana and Kerala together are what percent more or less than that in state Maharashtra?

- (a) $\frac{100}{541}$ % more
- (b) $\frac{50}{227}$ % more
- (c) $\frac{100}{453}$ % more
- (d) Can't be determined
- (e) None of these

Q28. If ratio of male to female who were awarded for their bravery and intelligence in states MP and west Bengal be 2 : 1 and 1 : 2 respectively then total females of MP are approximately what percent more or less than the total females of west Bengal who were awarded?

- (a) 8.7% more
- (b) 8.7% less
- (c) 7.3% more
- (d) 7.3% less
- (e) 5.3% more





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Q29. Find the average no. of persons who were awarded for their bravery and intelligence in states UP, MP and Kerala together.

- (a) 291
- (b) 289
- (c) 391
- (d) 301
- (e) 281

Q30. What is the difference between total no. of person who were awarded in states UP, Kerala and West Bengal together and total no. of persons who were awarded in MP, Maharashtra and Haryana together?

- (a) 246
- (b) 264
- (c) 268
- (d) 260
- (e) 272

Direction (31-35): What should come in place of the question mark (?) in the following questions?

Q31. $3.2\% \text{ of } 500 \times 2.4\% \text{ of } ? = 288$

- (a) 650
- (b) 700
- (c) 600
- (d) 750
- (e) 845

Q32. $(-251 \times 21 \times -12) \div ? = 158.13$

- (a) 250
- (b) 400
- (c) 300
- (d) 15
- (e) 340

Q33. $[(130)^2 \div 25 \times 15] \div 30 = ?$

- (a) 352
- (b) 314
- (c) 326
- (d) 338
- (e) 375

Q34. $\sqrt{\sqrt{44944} + \sqrt{52441}} = ?$

- (a) 312
- (b) 441
- (c) 485
- (d) 17
- (e) 21



COMBO
15 TOTAL TESTS
<ul style="list-style-type: none">• 10 prelims Full Length Mocks• 5 Mains Full Length Mocks
BILINGUAL

Q35. (6.5% of 375) – (0.85% of 230) = ?

- (a) 23.42
- (b) 24.24
- (c) 21.64
- (d) 22.40
- (e) 25.76

Directions (36-38): Each of the following questions consist of 3 statements A, B and C. You have to determine that which of the following statement/statements are necessary to answer the questions:

Q36. The cost of three pencils, four erasers and five paperweights is Rs 28. What is the cost of an eraser?

- A.** The cost of a paperweight is 25 paisa less than that of the pencil and eraser together.
- B.** The cost of ten paperweights and 8 erasers is Rs 42.50.
- C.** The cost price of a pencil is 80% more than that of an eraser.

- (a) Any two of them
- (b) Either B alone or A and C together
- (c) Any of them
- (d) Either C alone or A alone
- (e) None of these

Q37. $x^2 : y^2 = ?$

- A.** The sum of the sum of these two quantities and their difference is 12 whereas the difference of the sum of these two quantities and their difference is 6. ($x > y$)
- B.** y is 50% less than x .
- C.** $\sqrt{y} : \sqrt{x} = 1 : \sqrt{2}$

- (a) Only A and B are sufficient
- (b) Any two of A, B and C are sufficient
- (c) Any one of A, B and C is sufficient
- (d) Only B and C are sufficient
- (e) All together are sufficient

Q38. What is the cost price of the book?

- A.** After allowing a discount of 18% on printed price shopkeeper charges Rs 516.60 for it.
- B.** If he had not allowed any discount, he would have a profit of 25%.
- C.** If he had allowed only 10% discount on printed price then he would have 12.5% profit.

- (a) Any two of them
- (c) Either A and B or C
- (b) Any one of them
- (d) All together is required
- (e) A and either B or C



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Q39. The numerical values of the volume and the area of the lateral surface of a right circular cone are equal. If the height of the cone be h and radius be r , the value of $\frac{1}{h^2} + \frac{1}{r^2}$ is

- (a) $\frac{9}{1}$
- (b) $\frac{3}{1}$
- (c) $\frac{1}{3}$
- (d) $\frac{1}{9}$
- (e) $\frac{2}{7}$

Q40. A sphere of radius r is cut by a plane at a distance of h from its center, thereby breaking this sphere into two different pieces. The cumulative surface area of these two pieces is 25% more than that of the sphere. Find h .

- (a) $\frac{r}{\sqrt{2}}$
- (b) $\frac{r}{\sqrt{3}}$
- (c) $\frac{r}{\sqrt{5}}$
- (d) $\frac{r}{\sqrt{6}}$
- (e) $\frac{r}{2}$

Directions (41 -45): Two equations I and II are given below. You have to solve these equations and give answer

- (a) if $x < y$
- (b) if $x > y$
- (c) if $x \leq y$
- (d) if $x \geq y$
- (e) if $x = y$ or no relation can be established

Q41. I. $3x^2 + 10x + 8 = 0$

II. $3y^2 + 7y + 4 = 0$

Q42. I. $2x^2 + 21x + 10 = 0$

II. $3y^2 + 13y + 14 = 0$

Q43. I. $4x^2 - 13x + 9 = 0$

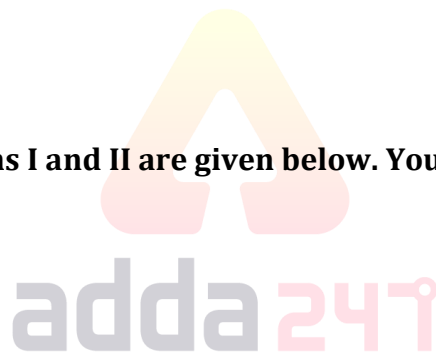
II. $3y^2 - 14y + 16 = 0$

Q44. I. $8x^2 + 18x + 9 = 0$

II. $4y^2 + 19y + 21 = 0$

Q45. I. $3x^2 + 16x + 21 = 0$

II. $6y^2 + 17y + 12 = 0$



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Directions (46 - 50): Study the following graph carefully to answer the questions that follows:
Monthly income (Rs in thousands) of three different persons in five different years



Q46. Find the average monthly income of person B over all the years

- (a) 26000
- (b) 31000
- (c) 35000
- (d) 22000
- (e) 38000

Q47. What is the difference between total monthly income of person A and that of person C over all years?

- (a) 8000
- (b) 10000
- (c) 5000
- (d) 4000
- (e) 2500

Q48. The monthly income of person A in the year 2003 is what percent more or less than the monthly income of B in the same year?

- (a) $14\frac{2}{7}\%$ less
- (b) $14\frac{2}{7}\%$ more
- (c) 14 % less
- (d) 14% more
- (e) None of these





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Q49. Find the ratio of total monthly income of A in the years 2002 and 2004 together to the total monthly income of C in the years 2001 and 2003 together.

- (a) 13 : 6
- (b) 4 : 9
- (c) 7 : 11
- (d) 11 : 7
- (e) 11 : 14

Q50. In which year the person B get maximum income?

- (a) 2005
- (b) 2004
- (c) 2002
- (d) 2003
- (e) 2001



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BILINGUAL

