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Q1. A student obtained equal marks in Physics and Chemistry. The ratio of marks in Chemistry and Math is 2 : 3 and the ratio of marks in Physics and English is 1 : 2. If he has scored an aggregate of 55% marks. The maximum marks in each subject is same. In how many subjects did he score equal to or greater than 60% marks?

- (a) 1
- (b) 2
- (c) 3
- (d) 0
- (e) 5

Q2. The concentration of glucose in three different mixtures (glucose and alcohol) is $\frac{1}{2}$, $\frac{3}{5}$ and $\frac{4}{5}$ respectively. If 2 litres, 3 litres and 1 litre are taken from these three different vessels and mixed. What is the ratio of glucose and alcohol in the new mixture?

- (a) 4 : 5
- (b) 3 : 2
- (c) 3 : 5
- (d) 2 : 3
- (e) none of these

Q3. 10 years ago the age of Krishna was $\frac{1}{3}$ rd of the age of Banshi. 14 years hence the ratio of ages of Krishna and Banshi will be 5 : 9. Find the ratio of their present ages:

- (a) 13 : 29
- (b) 11 : 27
- (c) 29 : 17
- (d) 13 : 25
- (e) none of these

Q4. Mohan Bhai sells chomchome (a favorite indian sweets) at Rs. 15 per kg. A chomchome is made up of flour and sugar in the ratio of 5 : 3. The ratio of price of sugar and flour is 7 : 3 (per kg). Thus he earns $66\frac{2}{3}$ % profit. What is the cost price of sugar?

- (a) Rs. 10/kg
- (b) Rs. 9/kg
- (c) Rs. 18/kg
- (d) Rs. 14/kg
- (e) none of these

The advertisement features the Adda247 logo at the top right. Below it, the text reads 'SSC CGL TIER II Maths & English @ 399/-'. To the left of this text is a circular logo with a tree and the letters 'SSC'. Below the main text, a green box contains the words 'Mock Test Booklets'. At the bottom, a blue box contains the text '10 TEST BOOKLETS (PRINTED TEST)' and a white button with the word 'Bilingual'.

Q5. A started a work and left after working for 3 days. Then B was called and he finished the work in $13\frac{1}{2}$ days. Had A left the work after working for $4\frac{1}{2}$ days, B would have finished the remaining work in 9 days. In how many days can each of them, working alone, finish the whole work?

- (a) 7.5 days, 22.5 days
- (b) 7 days, 9 days
- (c) 5 days, 15 days
- (d) 23.5 days, 8.5 days
- (e) None of these

Q6. Some amount out of Rs 9000 was lent at 8% per annum and the remaining at 6% per annum. If the total simple interest from both the fractions in 7 years was Rs 3900, find the sum lent at 8% per annum.

- (a) Rs $\frac{5000}{7}$
- (b) Rs $\frac{6000}{7}$
- (c) Rs 1600
- (d) Rs 1700
- (e) Rs $\frac{4000}{7}$

Q7. Three members of a family A, B and C, work together to get all household chores done. The time it takes them to do the work together is six hours less than A would have taken working alone, one hour less than B would have taken alone, and half the time C would have taken working alone. How long did it take them to do these chores working together?

- (a) 20 minutes
- (b) 30 minutes
- (c) 40 minutes
- (d) 50 minutes
- (e) None of these

Q8. A dealer buys dry fruits at Rs. 100, Rs 80 and Rs. 60 per kilogram. He mixes them in the ratio 4 : 5 : 6 by weight, and sells at a profit of 50%. At what price per kilogram does he sell the dry fruit?

- (a) Rs. 116
- (b) Rs . 106
- (c) Rs. 115
- (d) Rs. 112
- (e) Rs. 118

Q9. A man buys a truck for Rs. 2,50,000. The annual repair cost comes to 2.0% of the price of purchase. Besides, he has to pay an annual tax of Rs. 2000. At what monthly rent must he rent out the truck to get a return of 15% on his net investment of the first year?

- (a) Rs. 3350
- (b) Rs. 2500
- (c) Rs. 4000
- (d) Rs. 3212.50
- (e) Rs. 3632.50

Q10. Prema goes to a shop to buy a sofa set costing Rs. 13,080. The rate of sales tax is 9%. She tells the shopkeeper to reduce the price of the sofa set to such an extent that she has to pay Rs. 13080 inclusive of sales tax. Find the percentage reduction needed in the price of the sofa set to just satisfy her requirement. (rounded off to two decimal places).

- (a) 9.28%
- (b) 8.26%
- (c) 9%
- (d) 8.68%
- (e) 6%

Directions (11-15): Study the following table and answer the questions accordingly

Table shows production of mobile phone in different companies in different years (in thousand).

Year	Nokia	Samsung	MI	Moto	Lenovo
2006	69	91	71	15	100
2007	75	88	75	18	120
2008	81	97	79	21	102
2009	98	107	88	25	131
2010	93	110	92	24	143
2011	99	116	97	20	154
2012	105	122	103	25	163

Q11. Which mobile phone company witnessed lowest growth rate in production from 2006 to 2012?

- (a) Nokia
- (b) Samsung
- (c) Lenovo
- (d) Moto
- (e) None of these

Q12. Total phones produced by MI in 2007 is what percent of total phones produced by Nokia over all years? (approximately)

- (a) 12%
- (b) 9%
- (c) 15%
- (d) 18%
- (e) 22%



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Q13. What is the ratio of total production of company MI to the total production of Company Lenovo in all the years together?

- (a) 83 : 55
- (b) 55 : 83
- (c) 89 : 53
- (d) 53 : 89
- (e) 55 : 83

Q14. Total phones produced by Nokia and Moto in 2012 is approximately what percent more or less than the phones produced by Nokia and MI in 2007?

- (a) 10%
- (b) 27%
- (c) 18%
- (d) 13%
- (e) 23%

Q15. Which mobile phone company witnessed the maximum growth rate in production from 2006 to 2010?

- (a) Moto
- (b) MI
- (c) Samsung
- (d) Nokia
- (e) None of these



Directions (16-20): Find the wrong term which does not follow the pattern that other numbers follow in the following number series:

Q16. 2.5, 5, 12.5, 37.5, 131.25, 520

- (a) 5
- (b) 12.5
- (c) 37.5
- (d) 131.25
- (e) 520

Q17. 5, 23, 43, 66, 94, 131

- (a) 23
- (b) 43
- (c) 66
- (d) 131
- (e) 94

Q18. 4, 4, 7, 26, 183, 1790

- (a) 4
- (b) 7
- (c) 1790
- (d) 183
- (e) 4

Q19. 12, 36, 6, 18, 3, 10, 1.5

- (a) 10
- (b) 36
- (c) 18
- (d) 36
- (e) 1.5

Q20. 4.5, 3, 12, 25.5, 27, 40.5, 49.5, 48.5

- (a) 48.5
- (b) 12
- (c) 25.5
- (d) 27
- (e) 49.5

Directions (21-26): In following questions three statements either A, B and C or I, II and III are given. Question will be solved using these statements. Solve the questions and give answer according to use of statements.

Q21. A train crosses a platform of known length in a known time. What is the length of train ?

- A. The train crosses another stationary train in 36 seconds.
 - B. the ratio of the lengths of stationary train and platform is 2 : 3.
 - C. Train crosses a pole in 9 sec.
- (a) A is sufficient
 - (b) B is sufficient
 - (c) Either A and B together or C alone is sufficient.
 - (d) All the three statements are required
 - (e) None of these

Q22. What is the area of circle ?

- A. The radius of circle is three fifth of the slant height of a cone.
 - B. The volume of cone is 432 cm^3 .
 - C. the ratio between radius of cone and side of a square is 3 : 4.
- (a) A is sufficient
 - (b) Any two of them are sufficient
 - (c) B and C together are sufficient
 - (d) Even using all the statement, answer cannot be found.
 - (e) None of these

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Q23. What is the cost price of scooter ?

- A. The marked price of scooter is equal to selling price of a bike.
 - B. The profit earned on selling the scooter is 15%.
 - C. The selling prices of scooter and bike are in the ratio 3 : 5.
- (a) B and C together are required.
 - (b) A and B together are sufficient
 - (c) A and C together are sufficient.
 - (d) Even using all statements, answer cannot be found.
 - (e) All the three statements are required

Q24. What will be the average of five odd numbers?

- A. The largest no. is greater than the smallest by 12.
 - B. The sum of the largest and smallest nos. is equal to twice the middle one.
 - C. The difference of the first two numbers is 16.
- (a) Only A and C together
 - (b) Only B and C together
 - (c) Any two of them
 - (d) Question can't be answered even after using all the information
 - (e) All statements are required

Q25. Find the number of goats in a group of goats and peacocks.

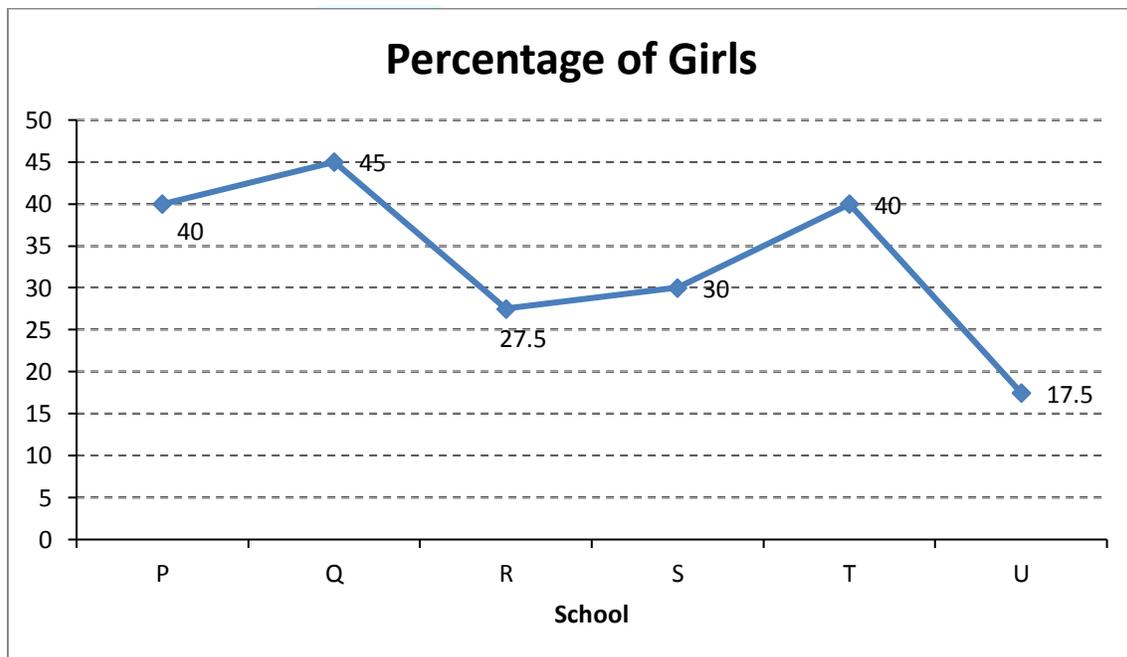
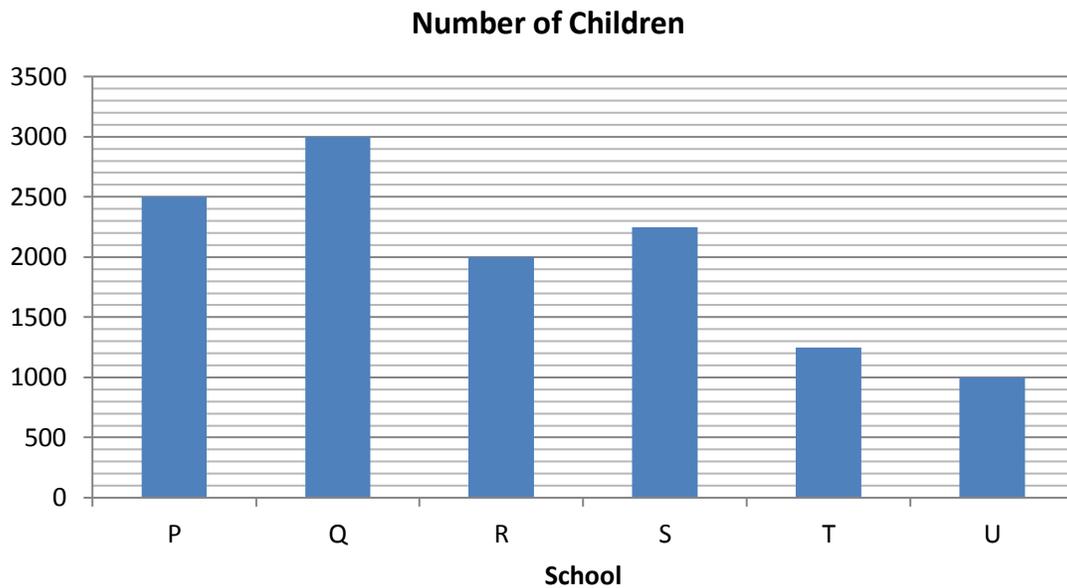
- A. The total no. of peacocks is 40.
 - B. In the group, the no. of legs are 28 more than twice the no. of heads.
 - C. If 6 rabbits be included in the group, the total no. rises to 60.
- (a) B and C are sufficient
 - (b) B alone is sufficient
 - (c) A and C are sufficient
 - (d) A, B and C even together are not sufficient
 - (e) Either A and C together or B is sufficient

Q26. A man takes 2 hours to swim from point A to B in still water. To find out speed upstream, which of the following information is/are required?

- A. Distance between point A and B.
 - B. Time taken to travel downstream from B to A.
 - C. Speed of the stream of water.
- (a) Any two of them are sufficient
 - (b) Even with all these, the answer cannot be found
 - (c) Only A and B
 - (d) Only A and C
 - (e) None of these

Directions (27-31): Study the graphs carefully to answer the questions that follow:

Total number of children in 6 different schools and the percentage of girls in them



Q27. What is the total percentage of boys in schools R and U together ? (rounded off to two digits after decimal)

- (a) 78.55
- (b) 72.45
- (c) 76.28
- (d) 75.83
- (e) None of these

Q28. What is the total number of boys in School T ?

- (a) 500
- (b) 600
- (c) 750
- (d) 850
- (e) None of these

Q29. The total number of students in school R is approximately what per cent of the total number of students in school S ?

- (a) 89
- (b) 75
- (c) 78
- (d) 82
- (e) 94

Q30. What is the average number of boys in schools P and Q together ?

- (a) 1425
- (b) 1575
- (c) 1450
- (d) 1625
- (e) 1265

Q31. What is the ratio of the number of girls in school P to the number of girls in school Q ?

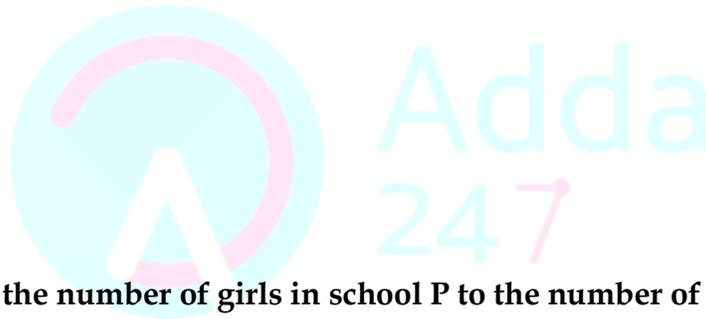
- (a) 27 : 20
- (b) 17 : 21
- (c) 20 : 27
- (d) 21 : 17
- (e) None of these

Q32. A pedestrian and a cyclist start simultaneously towards each other from Aurangabad and Paithan which are 40 km apart and meet 2 hours after the start. Then they resume their trips and the cyclist arrives at Aurangabad 7 hours 30 minutes earlier than the pedestrian arrives at Paithan. What of these could be the speed of the pedestrian ?

- (a) 4 km/hr
- (b) 5 km/hr
- (c) 3 km/hr
- (d) 6 km/hr
- (e) 7 km/hr



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Q33. A heap of topaz, rubies and emeralds is required to be formed. A topaz is worth Rs 5crores, a ruby Rs 2 crores and an emerald Rs 3 crores. The weight of a topaz is 0.7 kg, weight of a ruby is 0.2 kg and that of an emerald is 0.3kg. If the total weight allowed is 8 kgs, then which of the following combination maximizes the worth of the entire heap?

- (a) 10 topaz, 2 rubies, 2 emeralds
- (b) 6 topaz, 1 ruby, 12 emeralds
- (c) 11 topaz, 1 emerald
- (d) 26 emeralds, 1 ruby
- (e) 8 topaz, 8 emerald

Q34. When a cycle manufacturer reduced selling price of cycle by 50%, the number of bicycles sold radically increased by 600%. Initially the manufacturer was getting only 140% profit. What is the percentage increase of his profit?

- (a) 10%
- (b) 14%
- (c) 0%
- (d) Cannot be determined
- (e) None of these

Q35. A pump can be operated both for filling a tank and for emptying it. The capacity of tank is 2400 m³. The emptying capacity of the pump is 10 m³ per minute higher than its filling capacity. Consequently, the pump needs 8 minutes less to empty the tank than to fill it. Find the filling capacity of the pump.

- (a) 45 m³/minute
- (b) 30 m³/minute
- (c) 50 m³/minute
- (d) 55 m³/minute
- (e) None of these

Q36. The cost price of three varieties of apples namely A, B and C is Rs. 20/kg, Rs. 40/kg and Rs. 50/kg respectively. Find the selling price of one kg of apple in which these three varieties of apples are mixed in the ratio of 2 : 3 : 5 such that there is a net profit of 20% ?

- (a) Rs. 48
- (b) Rs. 48.6
- (c) Rs. 49.2
- (d) Rs. 49.8
- (e) Rs. 54.4

Directions (37-40): Study the following table carefully to answer the questions that follow.

The table given below provides the incomplete data related to monthly earning & expenditure of five friends. Find the missing value if required to answer the questions.

Friends	Total Income (In Rs)	Ratio of Savings & Expenditure S : E	Expenditure (in Rs) on		
			Rent	Food	Others
Soha	-	5 : 6	20%	15%	7800
Ruchi	28000	5 : 9	-	16%	62%
Suchi	22000	- : -	2000	2200	58%
Meenu	26000	- : 6	15%	25%	7200
Teena	-	8 : 9	4000	4000	10000

Q37. Find the annual income of soha.

- (a) Rs 26,400
- (b) Rs 2,65,000
- (c) Rs 26,500
- (d) Rs 2,64,000
- (e) None of these

Q38. Find the difference in the monthly savings of Suchi and Meenu.

- (a) Rs 1200
- (b) Rs 2200
- (c) Rs 2000
- (d) Rs 1800
- (e) Rs. 2600

Q39. Expenditure made by Ruchi on rent is what percent of expenditure made by Meenu on food?

- (a) 32%
- (b) 132%
- (c) 88%
- (d) 120%
- (e) 142%

Q40. The savings of Ruchi is what percent more or less than that of Teena?

- (a) 32%
- (b) 36%
- (c) 38%
- (d) 40%
- (e) 37.5%



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Directions (41-45): Study the information given below carefully and answer the questions related to it.

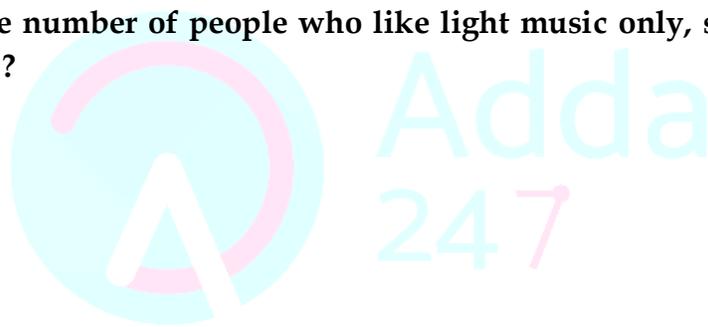
In a colony, there are 2400 people who like three different type of music classical, semi classical and light. 56% of total like light music. 44% of total population like semi classical music. 240 people like both light and semi classical music. 8% of total population like classical and semi classical music both. The total population who like classical music is 24%. The people who like all the three types of music viz classical, semi classical and light music are 4% of total population.

Q41. The population who like classical and light music both is approximately what percent of people who like classical music ?

- (a) 40%
- (b) 42%
- (c) 48%
- (d) 49%
- (e) 45%

Q42. What is the average number of people who like light music only, semi classical music only and classical music only ?

- (a) 648
- (b) 662
- (c) 640
- (d) 650
- (e) 658



Q43. What is the total number of people who like only classical and semi classical music both and only classical and light music both ?

- (a) 240
- (b) 246
- (c) 236
- (d) 256
- (e) 242

Q44. If the ratio of male to female is 13 : 9 in that population who like semi classical music then the total number of males who like semi classical music are what percent of total population ?

- (a) 24%
- (b) 26%
- (c) 28%
- (d) 30%
- (e) 32%

Q45. What is the difference between people who like light music only and semi classical music only?

- (a) 244
- (b) 238
- (c) 235
- (d) 240
- (e) 245

Directions (Q46-50): Find out the approximate value which should replace the question mark (?) in the following questions.

Note: (You are not expected to find out the exact value)

Q46. 25.05% of 2845 + 14.999 × 2400 = ?

- (a) 36,700
- (b) 36,500
- (c) 35,800
- (d) 35,600
- (e) 36,200

Q47. 1010 ÷ 36 + 187 × 20.05 = ?

- (a) 3650
- (b) 3770
- (c) 3825
- (d) 3800
- (e) 3700

Q48. 125% of 4875 + 88.005 × 14.995 = ?

- (a) 7395
- (b) 7490
- (c) 7510
- (d) 7375
- (e) 7415

Q49. 39.05 × 14.95 - 27.99 × 10.12 = (36 + ?) × 5

- (a) 22
- (b) 29
- (c) 34
- (d) 32
- (e) 25

Q50. 158.004 × 4.06 + 20.12% of 849.86 + ? = 950.93

- (a) 350
- (b) 480
- (c) 280
- (d) 250
- (e) 150




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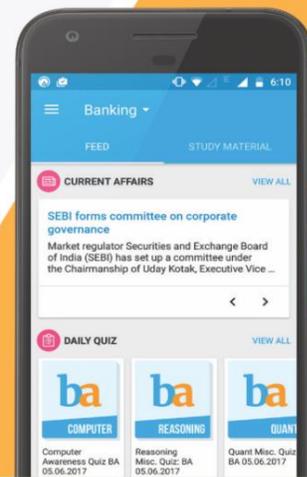
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