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30 Questions PDF for LIC AAO Mains

Direction (1- 5): Table given below shows total number of tickets which were estimated to be sold in five stadiums. Out of total tickets sold, percentage of A₁ tickets sold, and ratio between A₂ and A₃ is given. Study the data carefully and answer the following questions.

Stadiums	Tickets which can be sold	A ₁ tickets sold (in %)	A ₂ : A ₃
Nehru	1800	15%	9 : 8
Patel	2600	25%	4 : 5
Eden	2200	20%	5 : 3
Kaloor	2000	20%	7 : 5
Raipur	2700	30%	3 : 4

Note: - 200 tickets remain unsold in each stadium

Tickets which can be sold = A₁ tickets + A₂ tickets + A₃ tickets + Unsold tickets

Q1. Total A₁ and A₃ tickets sold in Patel stadium is what percent more than total number of A₁ and A₂ tickets sold in Kaloor stadium?

- (a) $16\frac{2}{3}\%$
- (b) 50%
- (c) $66\frac{2}{3}\%$
- (d) 25%
- (e) $33\frac{1}{3}\%$



Q2. Total A₂ tickets sold in Nehru stadium is how much less than A₃ tickets sold in Raipur stadium?

- (a) 220
- (b) 240
- (c) 260
- (d) 280
- (e) 300

Q3. Find the ratio between total A₃ tickets sold in Eden and Kaloor stadium together to total A₂ tickets sold in Patel and Eden stadium?

- (a) 3 : 2
- (b) 2 : 3
- (c) 20 : 23
- (d) 23 : 20
- (e) 8 : 9

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Q4. Find the average number of total A₁ tickets sold by all five stadiums together?

- (a) 514
- (b) 490
- (c) 470
- (d) 450
- (e) 430

Q5. A₁ and A₂ tickets sold in Nehru stadium is what percent more/less than A₁ and A₂ tickets sold in Raipur stadium?

- (a) 36%
- (b) 64%
- (c) 56.25%
- (d) 43.75%
- (e) 28%

Q6. A juice seller if sells pure juice at the rate of Rs. 30/glass he gains a profit of 20%. He mixed a certain amount of water (available at free of cost) in it and sells the juice at the same rate of Rs. 30/glass and hence makes a profit of 25%. Find the quantity of water (in ml) that he mixed. (capacity of glass = 300 ml)

- (a) 15 ml
- (b) 13 ml
- (c) 12 ml
- (d) 14 ml
- (e) 13.75 ml

Q7. 400 students took a SSC exam in Delhi. 60% of the boys and 80% of the girls qualified the cut off in the examination. If the total percentage of students qualifying is 65%, how many girls appeared in the examination?

- (a) 100
- (b) 120
- (c) 150
- (d) 300
- (e) 350

Q8. A can complete $\frac{1}{4}$ of a work in 10 days, B can complete 40% of the same work in 15 days, C completes $\frac{1}{3}$ of the same work in 13 days and D can complete $\frac{1}{6}$ of same work in 7 days. Who will be able to complete work fastest among them, if they start at same time?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) Can't be determined

Q9. Two numbers are such that the sum of twice the first number and thrice the second number is 36 and the sum of thrice the first number and twice the second number is 39. Which is the smaller number?

- (a) 9
- (b) 5
- (c) 7
- (d) 3
- (e) 6

Q10. P, Q and R enter into a partnership with investment of Rs. 3500, Rs. 4500 and Rs. 5500 respectively. If at the end of six months, total profit is Rs. 405. Find share of P out of the total profit?

- (a) Rs. 200
- (b) Rs. 105
- (c) Rs. 250
- (d) Rs. 151
- (e) Rs. 251

Directions (11-15): Find the wrong term in the following number series.

Q11. 2, 5, 14, 41, 125, 365

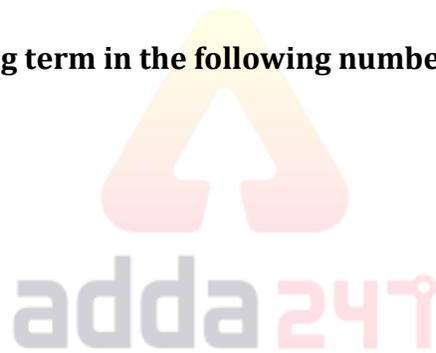
- (a) 5
- (b) 14
- (c) 41
- (d) 125
- (e) 365

Q12. 1, 3, 8, 19, 42, 91

- (a) 42
- (b) 91
- (c) 19
- (d) 8
- (e) 3

Q13. 23, 30, 21, 32, 19, 35

- (a) 23
- (b) 30
- (c) 35
- (d) 19
- (e) 32



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Q14. 10, 17, 26, 37, 50, 64, 82

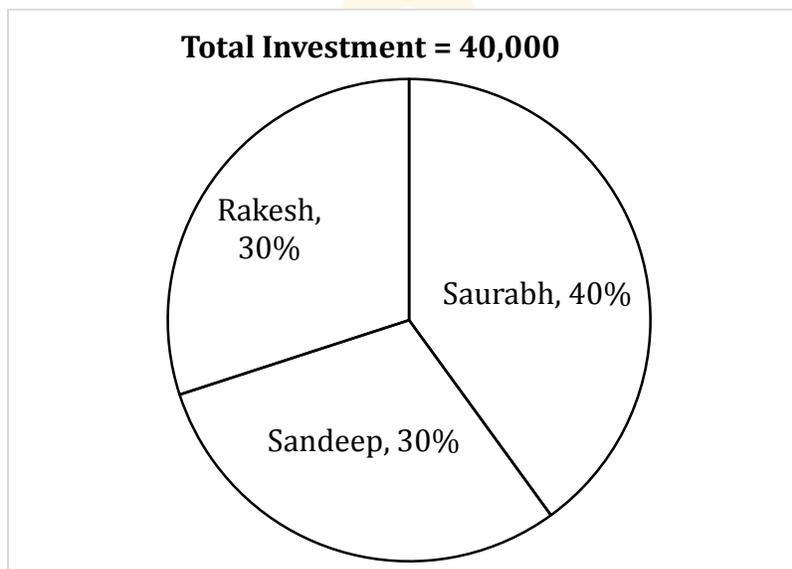
- (a) 17
- (b) 37
- (c) 50
- (d) 82
- (e) 64

Q15. 16, 4, 8, 2, 6, 1

- (a) 6
- (b) 4
- (c) 8
- (d) 2
- (e) 16

Direction (16-19): Data about investments of different persons is given below. Study the data and solve the questions carefully.

→ Investment of Neeraj is 50% more than investment of Aman while investment of Neeraj is 25% less than that of Sandeep.



Q16. Neeraj and Saurabh started a business together. After 8 months of business they invested Rs 1000 per month for every month. If annual profit is Rs 8000 then find Saurabh's profit out of total profit?

- (a) Rs 2950
- (b) Rs 4000
- (c) Rs 5050
- (d) Rs 4450
- (e) Rs 4850

Q17. Aman and Rakesh started a business together. Rakesh left the business 'x' months before the completion of year while Aman increased his investment by Rs 2000 after 8 months and then after 2 months more he increased his investment by Rs 2000 again. If ratio between profit share of Aman and Rakesh is 7 : 8 then Rakesh worked for how many months?

- (a) 8 months
- (b) 4 months
- (c) 6 months
- (d) 2 months
- (e) 10 months

Q18. Sandeep and Neeraj started a business together. After 8 months, Neeraj is replaced by another partner, Satish whose investment is Rs 4000 more than investment of Saurabh. If Satish worked for 3 months, then find the profit share of Sandeep if annual profit is Rs 11,500.

- (a) Rs 2500
- (b) Rs 3000
- (c) Rs 4500
- (d) Rs 5000
- (e) Rs 6000

Q19. Aman invested his amount in a scheme which after 20% p.a. at C.I. for 2 years while Saurabh invested his amount in a car whose value will depreciate at 20% p.a. every year. Find the total value of amount Aman and Saurabh will have after 2 years.

- (a) Rs. 31,680
- (b) Rs. 18,880
- (c) Rs. 26,880
- (d) Rs. 16,320
- (e) Rs. 22,880

Q20. Rahul took a loan of Rs.80000/- at rate of 5% p.a. at SI & lent it at 5% pa at CI. After 3 years, he cleared all his debts and invested the profit earned in a scheme which offers C.I. After two years he got Rs.128.1/- as interest from the scheme. Find the rate of interest offered by scheme.

- (a) 8%
- (b) 7%
- (c) 6%
- (d) 10%
- (e) 12%

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Q21. Aman invested an amount in scheme I which offers 2.75% p.a. at S.I for 4 years. He then withdrew his total amount and invested whole in the ratio of 6 : 7 at C.I. and SI respectively. The rate of interest offered in C.I. is 10% p.a. and rate of interest offered at SI is 10.5% p.a.. Find the initial amount invested by him in his first scheme which offered 2.75% p.a. if difference between interest earned in SI/CI earned form second scheme after 2 years is Rs. 2331.

- (a) 1.1 lakhs
- (b) 1.2 lakhs
- (c) 1.21 lakhs
- (d) 1.3 lakhs
- (e) 1.4 lakhs

Q22. A manufacturer of cricket balls wants to earn 25% profit on manufacturing cost after giving a discount of $23\frac{1}{3}\%$ on MRP marked by him. But due to some reasons he lost 25% of balls & he decided to offer discount of $7\frac{9}{13}\%$ on MRP of remaining balls. Find his overall profit% or loss%.

- (a) 8% Profit
- (b) 12% Profit
- (c) 12% Loss
- (d) 8% Loss
- (e) 5% Profit

Q23. Two athletes 'A' and 'B' practice running on 800 meters' track. If they start running at their usual speeds, in same direction, at same time, from same point, first time they meet is in 100 seconds. During warm-up, 'A' runs at $18\frac{2}{11}\%$ of his usual speed and completes 400 meters in 50 second. Find the time taken by athlete 'B' to complete 9 rounds of 400-meter track, if he runs at $\frac{5}{4}$ of his usual speed. Assume athlete 'A' is faster than 'B'.

- (a) 100 second
- (b) 450 second
- (c) 90 second
- (d) 80 second
- (e) 85 second

Q24. Find the probability of forming the word from ANANAB such that N never comes together.

- (a) $\frac{2}{3}$
- (b) $\frac{4}{5}$
- (c) $\frac{3}{5}$
- (d) $\frac{2}{5}$
- (e) $\frac{4}{5}$

Directions (25-27): Solve the given quadratic equations and mark the correct option based on your answer—

Q25. I. $(2x - 7)^2 = 25$

II. $(4y - 1)^2 = 9$

- (a) $x > y$
- (b) $x \leq y$
- (c) $x < y$
- (d) $x \geq y$
- (e) No relation can be established between x and y .

Q26. I. $\frac{20}{x^2} = 3 + \frac{4}{x}$

II. $\frac{32}{y^2} + 1 = \frac{12}{y}$

- (a) $x > y$
- (b) No relation can be established between x and y .
- (c) $x \leq y$
- (d) $x < y$
- (e) $x \geq y$

Q27. I. $x^2 + 8x + 15 = 0$

II. $2y^2 + 21y + 54 = 0$

- (a) $x > y$
- (b) $x \geq y$
- (c) No relation can be established between x and y .
- (d) $x \leq y$
- (e) $x < y$

Q28. Ratio of present age of S to A is 9 : 8 and ratio of age of A, 6 years later to 3 years earlier age of W is 2 : 1. The difference between present age of S and W is 9 years. Find the sum of ages of A, S and W.

- (a) 51 years
- (b) 102 years
- (c) 69 years
- (d) 63 years
- (e) 108 years

Q29. 8 men, 6 women and 12 children can complete work A in 3 days, 8 days and 6 days respectively. Find time taken by 1 man, 2 women and 3 children to complete twice the work A.

- (a) 14 days
- (b) 16 days
- (c) 12 days
- (d) 18 days
- (e) None of these

Q30. Ratio between efficiency of Arun, Yash and Rana is 6 : 4 : 5. All three starts to work together with same efficiency. But Rana, destroys his 60% of work in every evening, due to which they have to work 20 more days then estimated time. Find the estimated days by them to complete the work.

- (a) 80
- (b) 76
- (c) 84
- (d) 72
- (e) 90

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