



# LIC AAO

## Memory Based Paper 2019

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#### LIC AAO PRE Memory Based Quantitative Aptitude

##### Question 1-9

- 1) Speed of boat in still water is six times speed of stream. If boat cover 105km in Upstream in 7 hr. then find the speed of boat in still water?
- 2) A does  $\frac{2}{3}$  of works in 8 days and is replaced by B. B complete the remaining work. Then find difference of days taken by A and B alone to complete the work?
- 3) Three coins are tossed simultaneously .Find the probability to of attending exactly two heads?
- 4) Length of rectangle A is 1.25 times its width and area of rectangle A is  $1280 \text{ cm}^2$ . If width of A is equal to side of equilateral triangle. Then find the perimeter of triangle.
- 5) Average age of A and B 5 years hence will to 40 yrs. If B's age 10 yrs ago was 19 yrs and C's present age is 4 yrs more than A's age than find sum of A and C present age?
- 6) A invested 2000rs and B invested 500rs more than A. after 8 months C invested 1500. At the end of years C got profit of 350rs. Find total profit?
- 7) A train 220m long passes a platform is 40 sec. if its speed is increased by 3m/s ,then it cross a pole 11 sec. find the length of platform ?
- 8) Mixture of Milk and water has 7 liters of water when 2 liters of milk and 11 liters of water it added to the mixture then concentration. If milk in mixture becomes 80% find total quantity of initial mixture?
- 9) Selling price of article become 1080 after giving two successive discount of X% and 25%. Find the cost price of article if there is a profit of x% on selling the article after giving two successive discount?

##### Question (10-14)

**Missing Number Series.....**

- 10) 1.5, 2.5, 6, 19, 77, ?



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- 11) 9, 17, 33, 57, ?, 129
- 12) 14640, ?, 672, 112, 16, 2
- 13) 7, 15, 5, 17, 3, ?
- 14) 5, 9, 16, 29, ?, 103

**Question (15-19)**

**Directions :** Given below is the table which shows the no. of girls in five schools and ratio of boys to girls in the school

school	NO. OF GIRLS	RATIO OF BOYS TO GIRLS
A	150	8:3
B	180	4:5
C	225	3:5
D	120	4:3
E	160	5:4

**15) What is the ratio of girls in school A to total students in school B?**

Sol. Girls in school A = 150

$$\text{Total students in school B} = \frac{180}{5} \times 9 = 324$$

required ratio= 25:54

**16) What is the average of boys in school A, B and D?**

$$\text{Required average} = \frac{\frac{150}{3} \times 5 + \frac{180}{5} \times 4 + \frac{120}{3} \times 4}{3} = 184\frac{2}{3}$$

**17) Total boys in school C and D together are what percent more or less than total boys in school A and E together (approximately)**

$$\text{Total boys in C and D together} = 135 + 160 = 295$$

$$\text{Total boys in A and E together} = 400 + 200 = 600$$

$$\text{Required \%} = \frac{305}{600} \times 100 = 50$$

**18) If in school F total boys are 20 percent more than total boys from school E and over all students in F is same as in school E then total girls in school F are what percent less than total girls in school E**

$$\text{Total girls in school F} = 360 - 240 = 120$$

$$\text{Required \%} = \frac{160 - 120}{160} \times 100 = 25\%$$

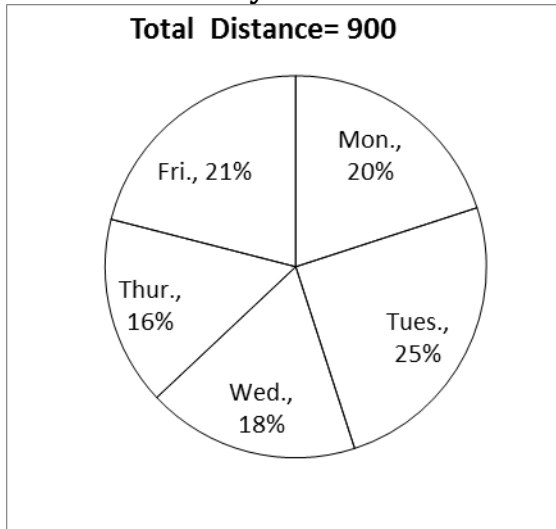
**19) Find the sum of total students in school C and in school B**

$$\text{Required sum} = 625 + 324 = 949$$



**Question (20-25)**

**Direction -Pie chart given below shows percentage distribution of distance travelled on 5 different days of the week.**



**20) If on Monday 5/9 of distance was covered at the speed of 50 km/h and remaining at 60km/h then find the average speed on Monday**

$$\text{Required average speed} = \frac{\text{Total distance}}{\text{Total time}} = \frac{180}{\frac{100}{50} + \frac{80}{60}} = 54 \text{ km/h}$$

**21) What is the average of distance covered on Monday, Tuesday and Wednesday**

$$\text{Required average} = \frac{180+225+162}{3} = 189$$

**22) Total distance covered on Monday and Wednesday together is what percent more or less than total distance covered on Friday and Tuesday together?**

Sol. Total distance covered on Monday and Wednesday together= 180+162= 342

Total distance covered on Friday and Tuesday together= 189+225= 414

$$\text{Required \%} = \frac{414-342}{414} \times 100 = \frac{400}{23} \%$$

**23) What is the ratio of total distance covered on Thursday to total distance covered on Tuesday?**

$$\text{Required ratio} = 144:225 = 16: 25$$

**24) What is the central angle corresponding to distance travelled on Friday?**

$$\text{Required angle} = \frac{5}{18} = \frac{21}{x}$$

$$x= 75.6$$



**25) If on Sunday total distance covered is 20% more than distance covered on Monday than distance covered on Sunday is what percent of distance covered on Thursday**

$$\text{Required \%} = 1.2 \times \frac{180}{144} \times 100 = 150\%$$

### **Question (26-30)**

**Directions :** Study the following information carefully to answer the questions given below it.

In a school of 2500 students, all the students have enrolled for different games viz. hockey, table-tennis, badminton, football, cricket, chess and carom. The respective ratio of girls to boys in the school is 3 : 2. 20% of the boys play only cricket. 25% of the girls play table-tennis, badminton and carom only. 26.8% of the boys play only football. The number of girls playing only cricket is 175% of the boys playing the same. The respective ratio of girls and boys playing only chess is 12 : 11. 25.7% of the boys play hockey, table-tennis and carom only. One-fourth of the girls play only badminton. The remaining girls play football and hockey only. The remaining boys play only chess.

**26). How many students play more than one game?**

From the above table, number of students playing more than one game  
 $= 100 + 375 + 257 = 732$

**27) The total number of students playing hockey is what per cent of the total number of students in the school?**

Total number of students playing hockey  $= 100 + 257 = 357$   
Therefore, required percentage  $= \frac{357}{2500} \times 100\% = 14.28\%$

**28) What is the respective ratio of total number of boys playing chess to the total number of girls playing badminton?**

Total number of boys playing chess  $= 275$

Total number of girls playing badminton  $= 375 + 375 = 750$

$\therefore$  Required ratio  $= 275 : 750 = 11 : 30$

**29) What is the total number of students playing any 1 or more than 1 of the games out of football, cricket and table-tennis?**

Total number of students playing football, cricket and table-tennis  
 $= 200 + 350 + 268 + 100 + 375 + 257 = 1550$



30) How many students play carrom?

Ans- 50

**Question (31-35)**

31) I)  $4x^2 - 16x + 15 = 0$   
II)  $2y^2 - 13y + 18 = 0$

I)  $4x^2 - 16x + 15 = 0$   
 $4x^2 - 10x - 6x + 15 = 0$   
 $2x(2x - 5) - 3(2x - 5) = 0$   
 $x = \frac{3}{2} \text{ or } \frac{5}{2}$

II)  $2y^2 - 13y + 18 = 0$   
 $2y^2 - 9y - 4y + 18 = 0$   
 $y(2y - 9) - 2(2y - 9) = 0$   
 $y = \frac{9}{2} \text{ or } 2$

∴ no relation between x and y

32)  $16x^2 + 20x + 6 = 0$   
 $10y^2 + 38y + 24 = 0$   
 $x = -\frac{3}{4}, -\frac{1}{2}, y = -3, -\frac{4}{5}; x > y$

33). I)  $\sqrt{289}x + \sqrt{225}y = 125$   
II)  $\sqrt{361}x + \sqrt{25}y = 15$

34)  $x^2 - 19x + 84 = 0$   
 $y^2 - 25y + 156 = 0$   
I.  $x^2 - 12x - 7x + 84 = 0$   
 $\Rightarrow x(x - 12) - 7(x - 12) = 0$   
 $\Rightarrow x = 7, 12$

II.  $y^2 - 13y - 12y + 156 = 0$   
 $\Rightarrow y(y - 13) - 12(y - 13) = 0$   
 $\Rightarrow y = 13, 12$

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35). I)  $13x^2 - 64x - 5 = 0$   
 II)  $11y^2 - 31y - 6 = 0$

I)  $13x^2 - 64x - 5 = 0$   
 $13x^2 - 65x + x - 5 = 0$   
 $13x(x - 5) + 1(x - 5) = 0$   
 $x = 5$  or  $-\frac{1}{13}$

II)  $11y^2 - 31y - 6 = 0$   
 $11y^2 - 33y + 2y - 6 = 0$   
 $11y(y - 3) + 2(y - 3) = 0$   
 $y = 3$  or  $-\frac{2}{11}$

∴ No relation can be established.

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