

# BOOKS



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**Directions (1-2):** In the following questions three statements either I, II and III or A, B and C are given. You have to find which statement/statements is/are sufficient to solve the given problem.

**Q1. What is the cost price of the wrist watch?**

- A. The cost price of a color T.V. is  $66\frac{2}{3}\%$  more than the cost price of the watch.  
B. The cost price of a ceiling fan is 400 rupees less than the cost price of the watch.  
C. The ratio of cost prices of T.V. and ceiling fan is 10: 3.  
(a) Either A and B or B and C together are sufficient.  
(b) All the statements together are required to solve the question.  
(c) Any two of them is sufficient to solve the question.  
(d) A and C together are sufficient.  
(e) Anyone of them

**Q2. What is the speed of the motorbike?**

- A. A car travels the same distance in 3 hours as the bike travels in 6 hours.  
B. Speed of the car is  $33\frac{1}{3}\%$  more than the speed of a train having a length of 150 m which crosses a pole in 6 seconds.  
C. The car crosses a standing goods train of length 800 m in 24 seconds. (The length of the car is negligible)  
(a) Either A and B together or A and C together are sufficient to give the answer.  
(b) All the three statements are required.  
(c) A and B together are sufficient to solve the problem.  
(d) B and C together are sufficient to give the answer.  
(e) None of the above.

**Q3. The expenses on rice, fish and oil of a family are in the ratio 12 : 17 : 3 respectively. The price of these articles is increased by 20%, 30% and 50% respectively. The total expenses of family on these articles are increased by:**

- (a)  $14\frac{1}{8}\%$   
(b)  $7\frac{1}{8}\%$   
(c)  $56\frac{1}{8}\%$   
(d)  $28\frac{1}{8}\%$   
(e) 28%

**Q4. The simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 8000 for 2 years at 10% per annum. Find the sum on which simple interest is calculated.**

- (a) Rs. 3500  
(b) Rs. 3800  
(c) Rs. 4000  
(d) Rs. 3600  
(e) Rs. 3200

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**Q5. According to a plan, a drilling team had to drill to a depth of 270 metres below the ground level. For the first three days the team drilled as per the plan. However, subsequently finding that their resources were getting underutilized according to the plan, it started to drill 8 metres more than the plan every day. Therefore, a day before the planned date they had drilled to the depth of 280 metres. How many metres of drilling was the plan for each day?**

- (a) 38 metres
- (b) 30 metres
- (c) 27 metres
- (d) 28 metres
- (e) 24 metres

**Directions (6-10): Simplify the following problems and find the value of (?)**

**Q6.  $55\% \text{ of } 320 + 30\% \text{ of } 1080 = 20 \times ?$**

- (a) 20
- (b) 500
- (c) 50
- (d) 25
- (e) 15

**Q7.  $(?)^2 \div 12.5 = 6.25 \times 3.125 \div 1.5625$**

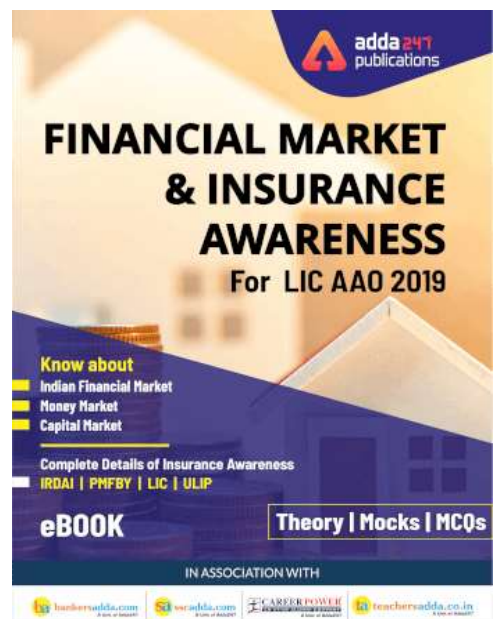
- (a) 1.25
- (b) 12.5
- (c) 25
- (d) 2.5
- (e) 6.25

**Q8.  $8\frac{1}{3} \times 2\frac{2}{5} + ? = 14\frac{1}{6} \times 3\frac{3}{17}$**

- (a) 25
- (b) 20
- (c) 16
- (d) 23
- (e) 27

**Q9.  $? \times 1.3 \times 6.5 = 1.17 \times 24.7$**

- (a) 2.56
- (b) 3.42
- (c) 3.61
- (d) 3.80
- (e) 2.88

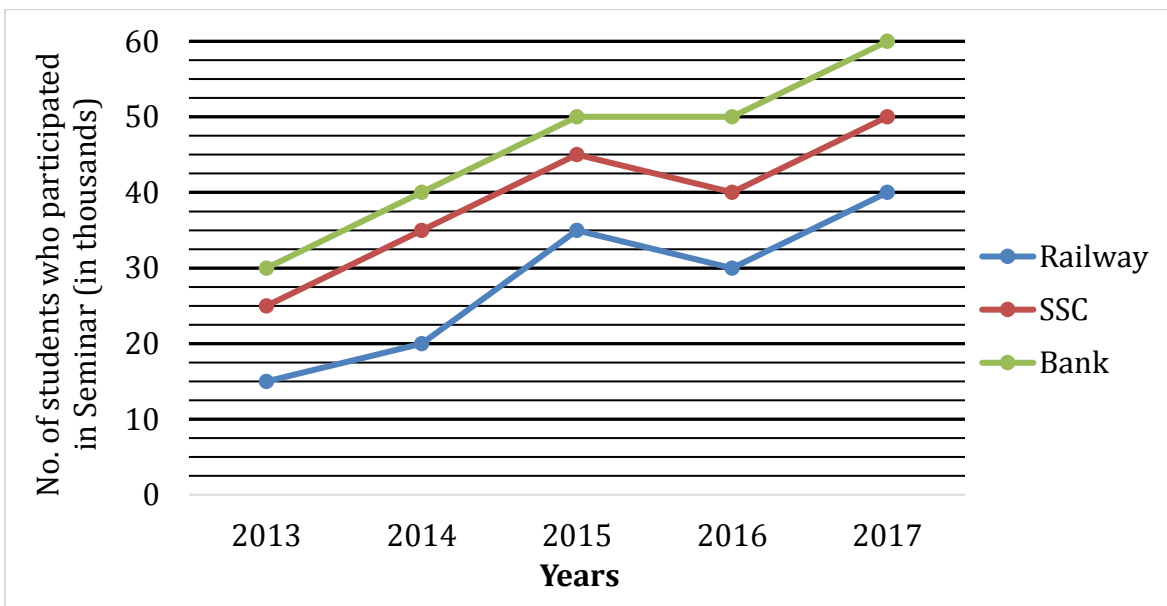


**Q10.**  $(25)^{2+7} = (625) \div 125 \times 3125 \div 25$

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

**Directions (11-15):** The following line graph shows the total no. of students of three different streams viz SSC, Bank and Railway who participated in a seminar organized by career power in five different years.

The table shows the ratio of male to female in them. Study both graph and table carefully and answer the questions that follow.



Year	Ratio of male to female in different stream		
	Bank M : F	SSC M : F	Railway M : F
2013	4:1	4:1	4:1
2014	5:3	5:2	7:3
2015	7:3	7:2	6:1
2016	3:2	5:3	3:1
2017	2:1	7:3	3:2



**Q11. The total no. of male students in 2014 from all streams participating in seminar is approximately what percent of total no. of female students from all stream participating in seminar in 2013?**

- (a) 547%
- (b) 457%
- (c) 455%
- (d) 452%
- (e) 745%

**Q12. If 10% male students and 5% female students from Banking asked questions to the speaker in seminar of 2015 while 10% of total students of SSC stream in 2015 asked the question to the speaker, then total no. of student from banking who asked question is what percent of the total no. of students from SSC who asked question in year 2015?**

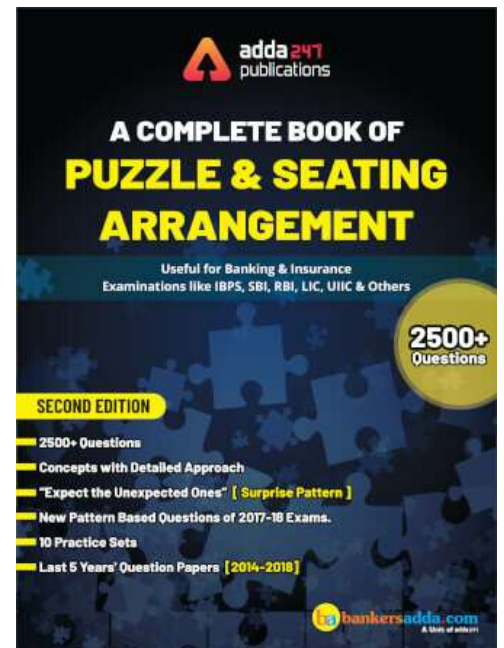
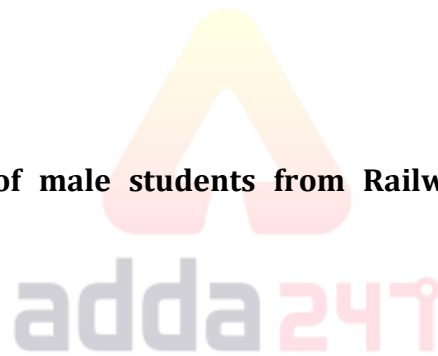
- (a) 90.54%
- (b) 92.44%
- (c) 94.44%
- (d) 9.444%
- (e) 98.44%

**Q13. What is the average no. of male students from Railway who participated in seminar throughout all the five years ?**

- (a) 22 thousand
- (b) 25 thousand
- (c) 20.5 thousand
- (d) 21.5 thousand
- (e) 19.5 thousand

**Q14. Total no. of male students from Banking in 2016 and 2017 together is approximately what percent more than the total no. of female students from SSC who participated in the seminar in the same years?**

- (a)  $133\frac{2}{3}\%$
- (b)  $133\frac{1}{3}\%$
- (c)  $13\frac{1}{3}\%$
- (d)  $131\frac{1}{3}\%$
- (e)  $135\frac{1}{3}\%$



**Q15.** In 2012 the same company i.e. career power had organized the seminar but the total no. of students in each stream i.e. (Bank, SSC, and Railway) were 10%, 20% and 25% less than that of 2013 respectively and total no. of boys who participated in the seminar in year 2012 from Bank, SSC, Railway were 1000, 1500 and 2000 less than that of 2013 respectively. Find the total no. of girls participated in seminar in 2012 from all the three streams respectively.

- (a) 6,850
- (b) 5,670
- (c) 7,650
- (d) 6,750
- (e) 7,550

**Directions (16-20):** What should come in place of the question mark (?) in following number series problems?

**Q16.** 7, 16, -2, 25, ?, 34

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

**Q17.** 6, 7, 24, ?, 882, 7947

- (a) 12
- (b) 20
- (c) 64
- (d) 81
- (e) 125

**Q18.** 2, 4, 16, ?, 132, 282

- (a) 42
- (b) 36
- (c) 52
- (d) 63
- (e) 72

**Q19.** 1, 2, 4.5, 11, 30, ?

- (a) 93
- (b) 72
- (c) 78
- (d) 84
- (e) 90



Q20. 2, 7, 28, 63, ?

- (a) 126
- (b) 81
- (c) 121
- (d) 111
- (e) 100

Directions (21-25): Study the following table to answer the questions that follows:

Years	Marks obtained by Ravi in different subjects in all 4 years during graduation				
	Machine (150)	Control System (100)	Power Elex. (150)	Power System (150)	Eng. Drawing (100)
2012	75	70	90	80	60
2013	100	75	100	100	75
2014	110	80	120	120	70
2015	120	85	120	130	80

Q21. Find the total marks obtained by Ravi in Machine over all the four years.

- (a) 410
- (b) 305
- (c) 405
- (d) 415
- (e) None of these

Q22. Total marks obtained by Ravi in all subjects together is what percent of total maximum marks in all subjects together in year 2013 (approximately)

- (a) 57%
- (b) 81%
- (c) 75%
- (d) 69%
- (e) 60%

Q23. Marks obtained in Control system in year 2014 are approximately what percent of marks obtained in Power Elex. in the same year by Ravi?

- (a)  $61\frac{2}{3}\%$
- (b) 54%
- (c) 64%
- (d)  $55\frac{2}{3}\%$
- (e)  $66\frac{2}{3}\%$



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**Q24. In which subject Ravi got maximum marks over all the four years together?**

- (a) Power Elex and power system
- (b) machine
- (c) control system
- (d) Eng. drawing
- (e) None of these

**Q25. Marks obtained (in percentage) in Power System in year 2014 are approximately what percent more or less than marks obtained (in percentage) in Eng. Drawing in year 2015 by him.**

- (a) 5%
- (b) 4%
- (c) 1%
- (d) 2%
- (e) 0%

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