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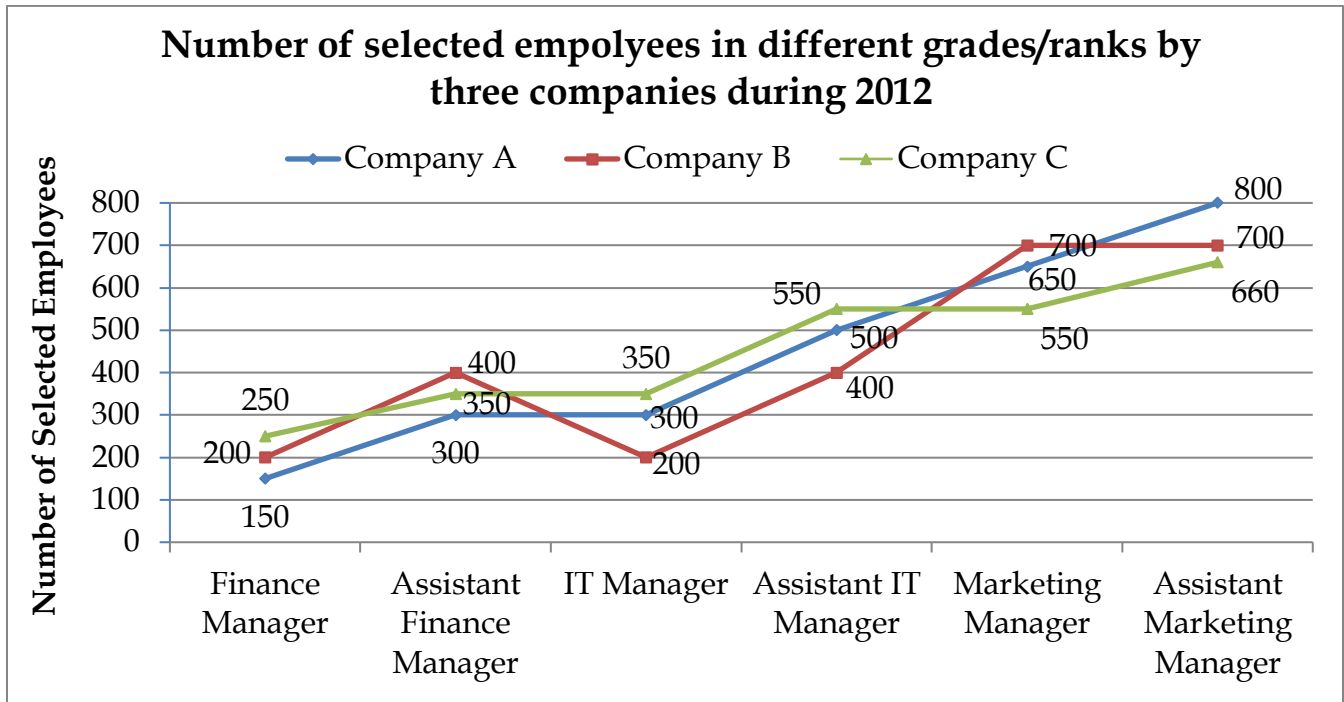
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Directions (1-5): Study the following graph carefully to answer the questions given below.



Q1. What is the respective ratio of selected employees for the post of marketing manager by all the companies A, B and C together ?

- (a) 12 : 11 : 14
- (b) 11 : 13 : 14
- (c) 13 : 14 : 11
- (d) 13 : 12 : 11
- (e) None of these

Q2. By what percent is the number of selected employees for assistant finance manager by company C less than total selected IT manager for all companies ?

- (a) 59.13%
- (b) 57.33%
- (c) 57.72%
- (d) 56.43%
- (e) 58.82%

Q3. What is approximate average number of selected employees by company B in all grades taken together?

- (a) 471
- (b) 433
- (c) 429
- (d) 437
- (e) 467





RAILWAY RECRUITMENT BOARD

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Q4. What is respective ratio of the total selected employees for all the grades by all 3 companies A, B and C ?

- (a) 27 : 26 : 27
- (b) 23 : 13 : 9
- (c) 9 : 13 : 26
- (d) 3 : 13 : 11
- (e) None of these

Q5. The number of marketing manager in company C is what percent of total employees selected in same company ?

- (a) 20.3%
- (b) 19.73%
- (c) 21.33%
- (d) 18.12%
- (e) 17.47%

Directions (11-15): Find out the approximate value which should replace the question mark (?) in the following questions. (You are not expected to find out the exact value)

Q6. $6, 23, 898 \times 99 = ? \times 60,000$

- (a) 1000
- (b) 1030
- (c) 1080
- (d) 1065
- (e) 1010

Q6. $\sqrt{624.9995} + (4.9989)^2 = ? \div \frac{1}{4.9900865}$

- (a) 6
- (b) 50
- (c) 10
- (d) 125
- (e) 15

Q8. $564.666 + 82.5091 \times 44.581 - 34.111 = ?$

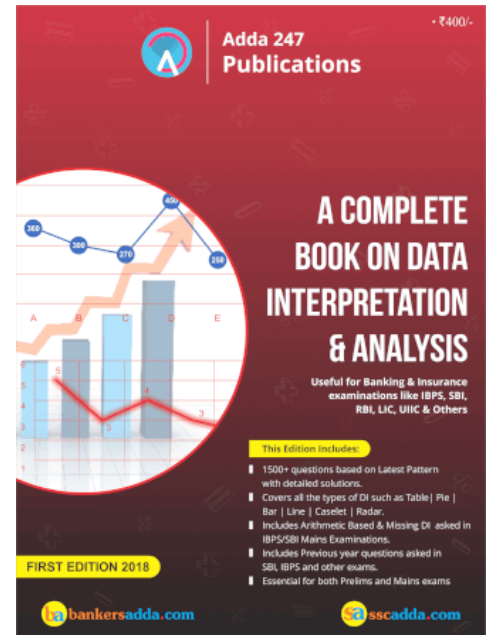
- (a) 28450
- (b) 4000
- (c) 1600
- (d) 14225
- (e) 4210

Q9. $(47\% \text{ of } 1442 - 36\% \text{ of } 1412) \div 63 = ?$

- (a) 7
- (b) 5
- (c) 3
- (d) 9
- (e) 1

Q10. $(341789 + 265108) \div (8936 - 3578) = ?$

- (a) 150
- (b) 113
- (c) 135
- (d) 100
- (e) 125



Directions (11-15): Given below is the table showing the Production (in lakh units) of 6 companies over the years. Study the data carefully and answer the following questions:

Company	Years					
	2007	2008	2009	2010	2011	2012
A	103	150	105	107	110	132
B	75	80	83	86	90	91
C	300	300	300	360	370	340
D	275	280	281	280	285	287
E	25	30	35	40	42	45
F	85	87	89	91	92	96

Q11. What is average production in 2009 of all the six companies together? (In lakh)

- (a) 148.83
- (b) 142.48
- (c) 149.13
- (d) 146.26
- (e) 159.23

Q12. What is the ratio of total production of company C and D over the years (2007 - 2012) ?

- (a) 708 : 813
- (b) 985 : 844
- (c) 99 : 101
- (d) 135 : 137
- (e) None of these

Q13. What is the percentage decrement in production of company A from 2008 to 2011 ?

- (a) $31\frac{1}{2}\%$
- (b) $23\frac{1}{3}\%$
- (c) $20\frac{1}{4}\%$
- (d) $26\frac{2}{3}\%$
- (e) None of these

Q14. If 25% of item produced by F in 2012 is defective, and 50% of defective items remains unsold as having major defects, then what is total number of sold items by that company in that year assuming that all remaining items were sold?

- (a) 82
- (b) 86
- (c) 84
- (d) 81
- (e) None of these

Q15. Which company has less average production in last three years as compared to average production in first 3 years ?

- (a) D
- (b) E
- (c) F
- (d) C
- (e) A




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

Q16. 6, 9, 18, 45, 135, ?

- (a) 470
- (b) 472.5
- (c) 493.75
- (d) 476.5
- (e) 439

Q17. 66, 35, 72, 38, 78, ?

- (a) 39
- (b) 158
- (c) 37
- (d) 41
- (e) 40

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Q18. 29, 33, 60, 76, 201, ?

- (a) 391
- (b) 139
- (c) 237
- (d) 211
- (e) 229

Q19. 5, 7.25, 13.5, 25.75, 46, ?

- (a) 70.25
- (b) 71.25
- (c) 73.25
- (d) 75.25
- (e) 76.25

Q20. 138, 269, 532, 1059, 2114, ?

- (a) 4405
- (b) 4025
- (c) 4252
- (d) 4225
- (e) 4325

Directions (21-25): What should come in place of question mark (?) in the following questions?

Q21. $\sqrt{1225} \div \sqrt[3]{343} \times 45\%$ of 760 = ?

- (a) 1170
- (b) 1760
- (c) 1510
- (d) 1710
- (e) None of these

Q22. 175% of 460 + 110% of 170 + $2^2 = 1000$

- (a) 3
- (b) 4
- (c) 5
- (d) 2
- (e) 1

Q23. $18^{7.9} \times 3^{0.1} \times 6^{0.1} \div (3^4 \times 6^4) = 18^?$

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

Q24. $3\frac{1}{7} + 2\frac{3}{5} + 7\frac{1}{5} - 5\frac{3}{7} - \frac{18}{35} = \frac{35}{?}$

- (a) 3
- (b) 5
- (c) 7
- (d) 9
- (e) 11

Q25. $36\% \text{ of } 245 - 40\% \text{ of } 210 = 10 - ?$

- (a) 4.2
- (b) 6.8
- (c) 4.9
- (d) 5.6
- (e) None of these

Q26. Swapana spent Rs. 44620 on Deepawali shopping, Rs. 32764 on buying Laptop and the remaining 32% of the total amount she had as cash with her. What was the total amount?

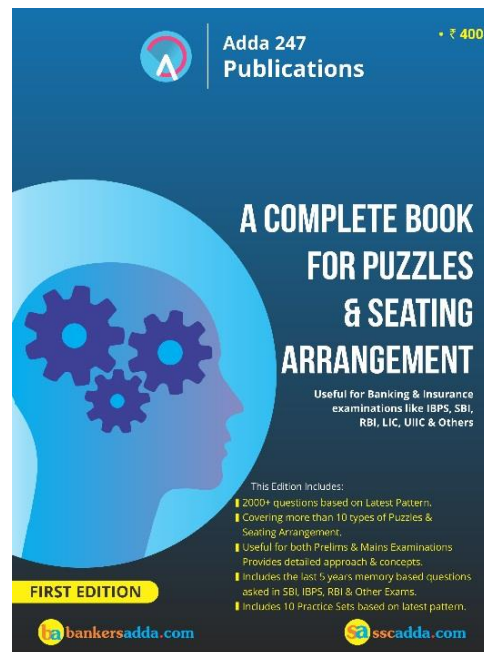
- (a) Rs. 36416
- (b) Rs. 113800
- (c) Rs. 77384
- (d) Cannot be determined
- (e) None of these

Q27. The compound interest on a certain sum for 2 years is Rs. 756 and Simple interest is Rs. 720. If the sum is invested such that the SI is Rs. 900 and the number of years is equal to the rate percent per annum, find the rate percent?

- (a) 10%
- (b) 12%
- (c) 5%
- (d) 15%
- (e) None of these

Q28. A tree's height increases annually by $\frac{1}{8}$ th of its height. By how much will its height increase after 2.5 years, if it stands today at 10 m height?

- (a) 3.2 m
- (b) 3.44 m
- (c) 3.6 m
- (d) 3.88 m
- (e) None of these



Q29. A car runs at the speed of 40 km/h when not serviced and runs at 65 km/h, when serviced. After servicing the car covers a certain distance in 5 h. How much approximate time will the car take to cover the same distance when not serviced?

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

Q30. A 180-metre long train crosses another 270-meter long train running in the opposite direction in 10.8 seconds. If the speed of the first train is 60 kmph, what is the speed of the second train in kmph?

- (a) 80
- (b) 90
- (c) 150
- (d) Cannot be determined
- (e) None of these

Q31. A boat covers 48 km in upstream and 72 km in downstream in 12 hours, while it covers 72 km in upstream and 48 km in downstream in 13 hours. Find the speed of the stream

- (a) 2km/h
- (b) 4km/h
- (c) 3km/h
- (d) 5km/h
- (e) 6km/h

Q32. A's age is one-sixths of B's age. B's age will be twice of C's age after 10 years. If C's eighth birthday was celebrated two years ago, then present age of A must be:

- (a) 5 years
- (b) 10 years
- (c) 15 years
- (d) 20 years
- (e) None of the above

Q33. A water tank normally takes 7 hours to be filled by a tap but because of the leak, it takes another 2 hours. In how many hours will the leak empty a full water tank?

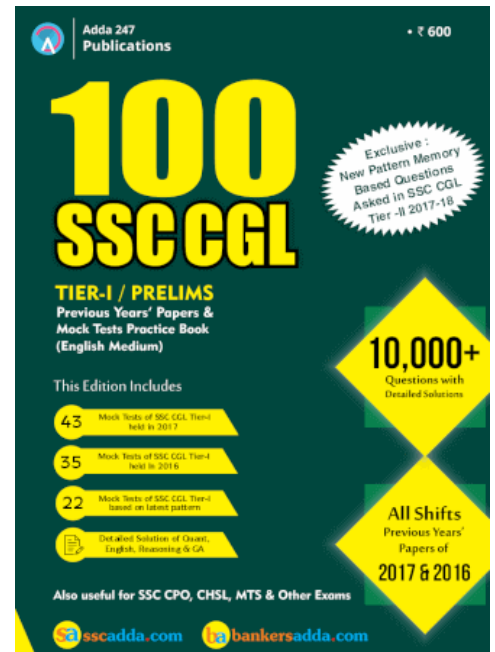
- (a) 20.5 hours
- (b) 24.4 hours
- (c) 30 hours
- (d) 31.5 hours
- (e) None of these

Q34. The work done by a woman in 8 hours is equal to the work done by a man in 6 hours and by a boy in 12 hours. If working 6 hours per day 9 men can complete a work in 6 days then in how many days can 12 men, 12 women and 12 boys together finish the same work working 8 hours per day?

- (a) $1\frac{1}{3}$ days
- (b) $3\frac{2}{3}$ days
- (c) 3 days
- (d) $1\frac{1}{2}$ days
- (e) None of these

Q35. The total marks obtained by a student in Physics, Chemistry and Mathematics together is 120 more than the marks obtained by him in Chemistry. What is the average marks obtained by him in Physics and Mathematics together?

- (a) 60
- (b) 120
- (c) 40
- (d) Cannot be determined
- (e) None of the above

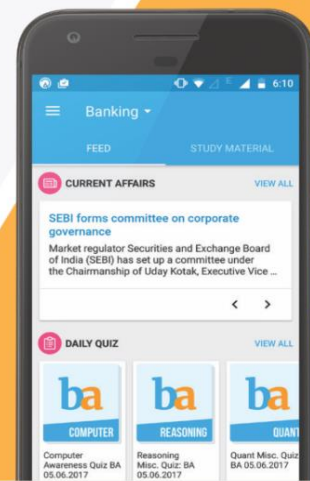




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