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SRIMAAN COACHING CENTRE-TRICHY-TRB-BEO-MATHEMATICAL APTITUDE & MENTAL ABILITY TESTS-(NEW SYLLABUS) MODEL TEST-CONTACT:8072230063.

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TO CONTACT:8072230063.

TRB-BEO EXAM-2023

UNIT III – MATHEMATICAL APTITUDE & MENTAL ABILITY TESTS-

MODEL TEST-I

Duration:1/2 Hour

Max.Marks:50

1. What percent of 72 is 6?

- (a) 8 1/3%
- (b) 8 1/5%
- (c) 8%
- (d) 8 1/7%

2. What is 25% of 25% equal to

- (a) 6.251
- (b) .625
- (c).0625

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(d) .00635

- 3 . If A's income is 33% more than that of B, then how much percent is B's income less than that of A?
 - (a) 24.8%
 - (b) 26.7%
 - (c) 28.5%
 - (d) 24.3%
- 4. If the A's height is 24% less than that of B, then how much percent is B's height more than that of A?

 (a) 30.61%
 - (b) 36.42%
 - (c)31.57%
 - (d) 31.88%
- 5. If the price of tea is increased by 20 % find by how much percent must a house holder reduce her consumption of tea so as not to increase the expenditure?
 - (a)16 2/3%
 - (b) 17 1/6%
 - (c) 16 1/7%
 - (d) 16 1/9%
- 6. If the price of sugar decreases by 20% find by how much percent must a house holder increase her consumption of sugar so as not to decrease the expenditure?
 - (a) 25%
 - (b)24%
 - (c)28%

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- (d) 27%
- 7. The population of a town is 176400, if it increases at the rate of 5% annum, what will be it's population 2 years hence? What was it 2 years ago?
 - (a) 194481 and 160000
 - (b) 184488 and 160088
 - (c) 195477 and 160968
 - (d) 198897 and 160094
- 8. From the salary of an officer, 10% is deducted as house rent, 15% of the rest he spends on children's education and 10% of the balance he spends on clothes than he is left with ₹ 4131.Find his total salary?
 - (a) 8000
 - (b) 6000
 - (c) 6060
 - (d) 6600
- 9. If A's salary is 20% less than B's salary by how much percent is B's salary more than A's?
 - (a) 16 2/3%
 - (b) 20%
 - (c) 25%
 - (d) 33 1/3%
- 10. Which is greatest in 16 2/3%, 2/5 and 0.17?
 - (a) $16 \frac{2}{3}$
 - (b) 2/5
 - (c) 0.17

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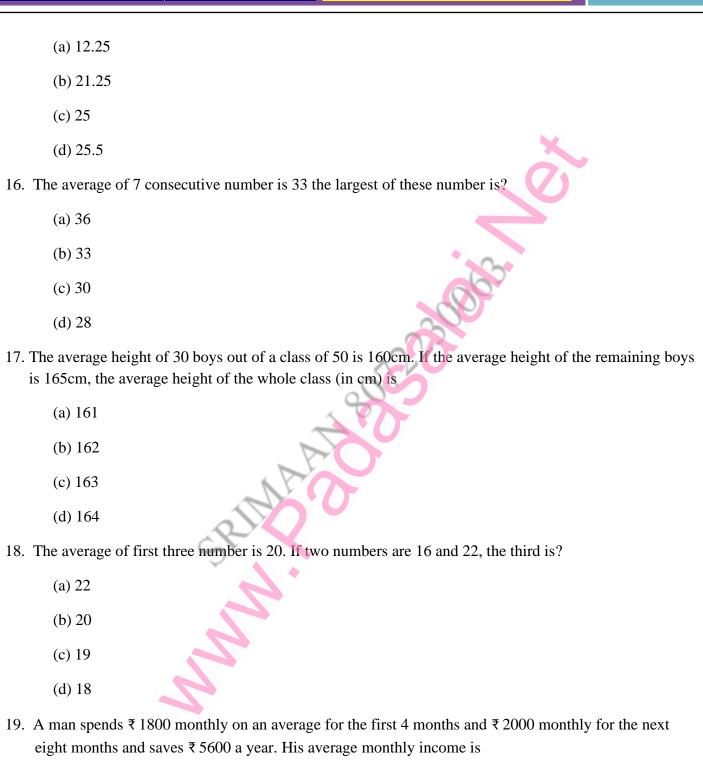


- (d) 0.99
- 11. 63% of 3 4/7 is
 - (a) 2.25
 - (b) 2.40
 - (c) 2.50
 - (d) 2.75
- 12. 40 quintals is what percent of 2 metric tons?
 - (a) 20%
 - (b) 2%
 - (c) 200%
 - (d) 150%
- 13. Anis's height is 20% less than Deepak's. How much is Deepak's height more than Anil's?
 - (a) 16 2/3%
 - (b) 18%
 - (c) 20%
 - (d) 25%
- 14. The average of first five multiples of 3 is
 - (a) 3
 - (b) 9
 - (c) 12
 - (d) 15
- 15. The average of first 50 natural numbers is?

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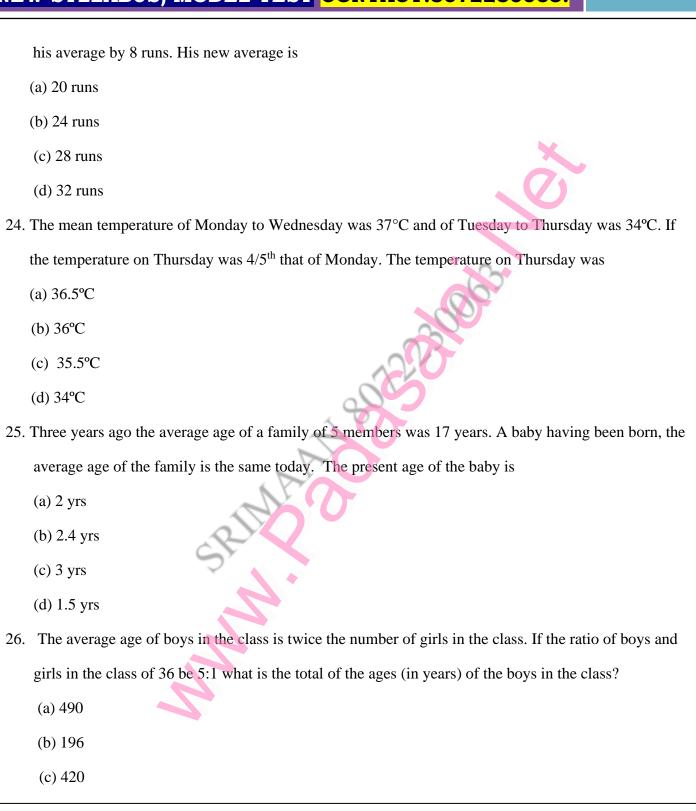


- (b) Rs. 2200
- (c) Rs. 2400
- (d) Rs. 2600
- 20. The average of six number is 30. If the average of first four is 25 and that of last three is 35. The fourth number is?
 - (a) 25
 - (b) 30
 - (c) 35
 - (d) 40
- 21. Mukesh has twice as much money as Sohan and Sohan has 150% more money than what Pankaj has if the average money with them is ₹ 110 then Mukesh has
 - (a) Rs.55
 - (b) Rs.60
 - (c) Rs.90
 - (d) Rs.180
- 22. The average age of 24 boys and the teacher is 15 years. When the teacher's age is excluded the average decreases by 1. What is the age of the teacher?
 - (a) 38 years
 - (b) 39 years
 - (c) 40 years
 - (d) data inadequacy
- 23. A cricketer has a certain average for 9 innings. In the 10th inning he scores 100 runs there by increasing

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- (d) 360
- 27. A man buys an article for Rs. 27.50 and sells it for Rs.28.60. find his gain percent.
 - (a) 3%
 - (b) 2%
 - (c) 4%
 - (d) 6%
- 28. Find C.P when S.P = ₹ 40.60, gain = 16%
 - (a) ₹ 25
 - (b) ₹ 55
 - (c) ₹ 45
 - (d) ₹ 35
- 29. Find S.P when C.P = ₹ 80.40, loss = 15%
 - (a) ₹ 63.58
 - (b) ₹ 68.34
 - (c) ₹ 60.53
 - (d) ₹ 66.43
- 30. A man sold two houses for Rs. 675958 each. On one he gains 16% while on the other he loses 16% How much does he gain or loss in the whole transaction?
 - (a) 3.26%
 - (b) 3.28%
 - (c) 2.56%

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- (d) 2.86%
- 31. find the single discount equivalent to a series discount of 20%, 10% and 5%.
 - (a)30.6%
 - (b) 31.6%
 - (c) 29.6%
 - (d) 28.6%
- 32. A bought a radio set and spend Rs.110 on it repairs. He then sold it to B at 20% profit, B sold it to C at a loss of 10% and C sold it for Rs.1188 at a profit of 10% what is the amount for which A bought the radio set?
 - (a) ₹850
 - (b) ₹890
 - (c) ₹930
 - (d) ₹950
- 33. The C.P of 12 articles is equal to S.P of 9 articles. Find the gain percent
 - (a) 22 ½%
 - (b) 33 1/3%
 - (c) 44 ½%
 - (d) 55 1/5%
- 34. A man sold an article for ₹ 247.50, there by gaining 12 ½%. The cost of the article was
 - (a) ₹ 225
 - (b) ₹ 224

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- (c) ₹ 220
- (d) ₹ 210
- 35. A retailer buys a radio for ₹225. His overhead expenses are ₹ 15. He sells the radio for ₹ 300. The profit percent of the retailer is
 - (a) 10
 - (b) 25
 - (c) 50
 - (d) 52
- 36. A grain dealer cheats to the extent of 10% while buying as well as selling, by using false weights. His total gain is:
 - (a) 22 2/9%
 - (b) 21%
 - (c) 20%
 - (d) 10%
- 37. By selling an article, Sheetal earned a profit equal to ¼ th of the price he bought it. If he sold it for ₹ 375, what was the cost price?
 - (a) ₹ 350
 - (b) ₹ 312.50
 - (c) ₹ 300
 - (d) ₹ 281.75
- 38. A horse and a cow were sold for ₹ 12000 each. The horse was sold at a loss of 20% and the cow at a gain of 20%. The entire transaction resulted in :

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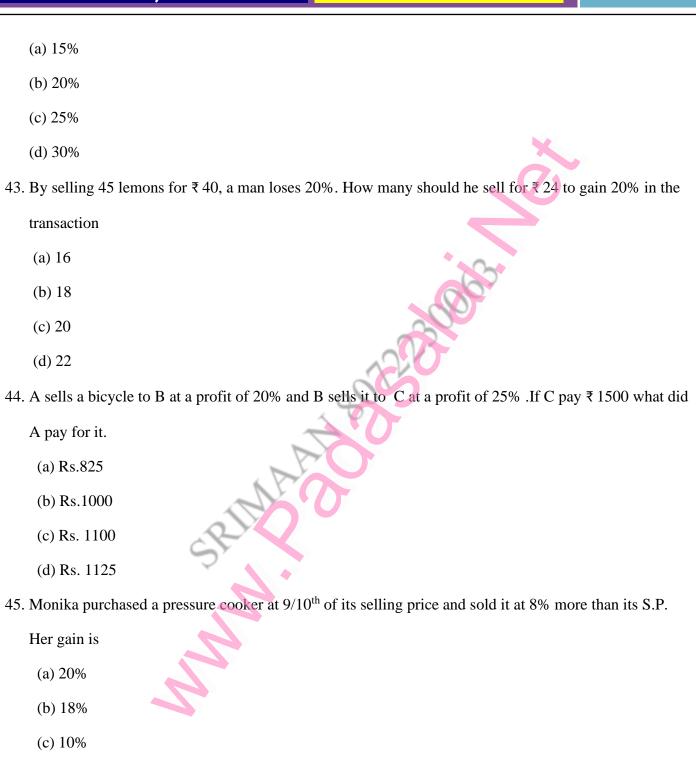
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- (a) no loss or gain
- (b) loss of ₹1000
- (c) gain of ₹ 1000
- (d) gain of ₹ 2000
- 39. The original price of a T.V set is ₹ 9000. The price is discounted by 20% and then raised by 10% what is its new price.
 - (a) 6420
 - (b)7520
 - (c)7900
 - (d) 7920
- 40. If, by selling an article for ₹ 100. A man gain ₹ 15 then his gain percent is
 - (a) 15%
 - (b) 12 2/3%
 - (c) 17.11/17 %
 - (d) 17 1/4%
- 41. There would be 10% loss if a toy is sold at ₹ 10.80 per piece at what price should it be sold to earn a profit of 20%
 - (a) Rs.12
 - (b) Rs.12.96
 - (c) Rs.14.40
 - (d) none
- 42. If the cost price of 12 tables is equal to the selling price of 16 tables, the loss percent is

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(d) 8%

- 46. The C.P of an article is 40% of the S.P. The percent that the S.P is of C.P is
 - (a) 250
 - (b) 240
 - (c) 60
 - (d) 40

STUDY MATERIALS AVAILABLE

- **TRB-BEO:-(TAMIL & ENGLISH MEDIUM)**STUDY MATERIAL WITH Q BANK AVAILABLE.
- **WIG-TRB:-(ALL SUBJECT) FULL STUDY**MATERIAL AVAILABLE.
- **PG-TRB:** (ALL SUBJECT) STUDY MATERIALS WITH QUESTION BANK AVAILABLE.
- TNPSC-DEO (TAMIL & ENGLISH MEDIUM)
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- 47. Rajesh buys an article with 25% discount on its marked price. He makes a profit of 10% by selling it at ₹ 600. The marked price is
 - (a) Rs. 600
 - (b) Rs. 685
 - (c) Rs.700
 - (d) Rs. 800
- 48. A dealer marks his goods 20% above C.P. He then allows some discount on it and makes a profit of 8%. The rate of discount is
 - (a) 4%
 - (b) 6%
 - (c) 10%
 - (d) 12%
- 49. Anil bought a T.V with 20% discount on the labelled price. Had he bought it with 25% discount, he would have saved ₹ 500. At what Price did he buy the T.V?
 - (a) ₹ 16000
 - (b) ₹ 12000
 - (c) ₹ 10000
 - (d) ₹ 5000
- 50. A Shopkeeper Professes to sell all things at a discount of 10% but increases the S.P of each article by 20%. His gain on each article is
 - (a) 6%
- (b) 8%
- (c) 10%
- (d)12%

ANSWERS WILL BE SHORTLY

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