SRI KRISHNAVENI COACHING CENTRE

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Sub: Arithmetic **AVERAGE** **Exam for : SSC/ Banking**

1. A man purchased 7 bags of rice at the rate of ₹800 each. 8 bags of rice at ₹1000 each and 5 bags of rice at the rate of ₹1200 each. What is the average cost of one bag of rice?
   (1) ₹1000 (2) ₹980 (3) ₹1120 (4) ₹1050
2. A fruit seller sold big, medium and small sized apples for ₹15, ₹10 and ₹5 respectively. The total number of apples sold were in the ratio 3 : 2 : 5. Find the average cost of an apple.
   (1) 8 (2) 10 (3) 9 (4) 7
3. A man purchases milk for three consecutive years. In the first year, he purchases milk at the rate of ₹7.50 per litre, in the second year, at the rate of ₹8.00 per litre and in the third year, at ₹8.50 per litre. If he purchases milk worth ₹4,080 each year, the average price of milk per litre for the three years is
   (1) ₹7.68 (2) ₹7.98 (3) ₹7.54 (4) ₹7.83
4. On mixing two classes A and B of students having average marks 25 and 40 respectively, the overall average obtained is 30. Find the ratio of the students in the classes A and B.
   (1) 2 : 1 (2) 5 : 8 (3) 5 : 6 (4) 3 : 4
5. While purchasing one item costing ₹400. One has to pay sales tax at 7% and on another costing ₹6400, the sales tax was 9%. The percent of sales tax one has to pay taking these items together on an average is
   (1) $8\frac{13}{17}$ (2) $8\frac{15}{17}$ (3) $8\frac{1}{2}$ (4) 8
6. Ram aims to score an average of 80 marks in quarterly and half yearly exams. But his average in quarterly is 3 marks less than his target and that in half yearly is 2 marks more than his aim. The difference between the total marks scored in both the exams is 25. Total marks aimed by Ram is:
   (1) 400 (2) 410 (3) 420 (4) 380
7. In the afternoon, a student read 100 pages at the rate of 60 pages per hour. In the evening, when she was tired, she read 100 more pages at the rate of 40 pages per hour. What was her average rate of reading, in pages per hour?
   (11) 60 (2) 70 (3) 48 (4) 50
8. There are in all, 10 balls; some of them are red and the others white. The average cost of all balls is ₹28. If the average cost of red balls ₹25 and that of white balls is ₹30, the number of white balls is
   (1) 3 (2) 5 (3) 6 (4) 7
9. The average age of P, Q and R is 5 years more than R's age. If the total ages P and Q together is 39 years, then R's age is
   (1) 12years (2) 24years (3) 16years (4) 14years
10. Three years ago the average age of a family of 5 members was 17 years. A baby having been born, the average age of the family remains the same today. The age of the baby today is
    (1) 3years (2) 2years (3) 1year (4) 1.5years
11. 3 years ago the average age of a family of 5 members was 17 years. A baby having been born, the average age of the family is the same today. The present age of the baby is
    (1) 1year (2) $1\frac{1}{2}$ years (3) 2 years (4) 3years
12. Five years ago, the average age of P and Q was 25. The average age of P, Q and R today is 25. Age of R after 5 years will be
    (1) 15years (2) 20years (3) 40years (4) 35years
13. The average age of a husband and wife, who were married 4 years ago, was 25 years at the time of their marriage. The average age of the family consisting of husband, wife and a child, born during the interval is 20 years today. The age of the child is
    (1) 1year (2) 2years (3) 2.5years (4) 3years
14. The average age of a husband and a wife was 27 years when they married 4 years ago. The average age of the husband, the wife and a new-born child is 21 years now. The present age of the child is
    (1) 4years (2) 3years (3) 2years (4) 1year
15. The average age of eleven cricket players is 20 years. If the age of the coach is also included, the average age increases by 10%. The age of the coach is
    (1) 48years (2) 44years (3) 40years (4) 36years
16. Five years ago, the average age of P, Q and R was 25 years and seven years ago, the average age of Q and R was 20 years. The present age of P is
    (1) 36years (2) 29years (3) 24years (4) 21years
17. The average age of 45 persons is decreased by $\frac{1}{9}$ year when one of them of 60 years is replaced by a new comer. Then the age of the new comer is
    (1) 45years (2) 55years (3) 59years (4) 49years
18. The average age of A and B is 20 years. If A is to be replaced by C, the average would be 19 years. The average age of C and A is 21 years. The ages of A, B and C in order (in years) are
    (1) 18,22,20 (2) 18,20,22
    (3) 22,18,20 (4) 22,20,18
19. The average age of a family of 10 members is 20 years. If the age of the youngest member of the family is 10 years, then the average age of the members of the family just before the birth of the youngest member was approximately.
    (1) 27.14years (2) 12.5 years
    (3) 14.28years (4) $11\frac{1}{9}$ years
20. Average age of 8 men is increased by 3 years when two of them whose age are 30 and 34 years are replaced by 2 persons. What is the average age of the 2 persons?
    (1) 24years (2) 32years (3) 44years (4) 48years

AVERAGE KEY SHEET			
1	2	11	3
2	3	12	2
3	2	13	2
4	1	14	4
5	2	15	2
6	1	16	1
7	3	17	2
8	3	18	3
9	1	19	4
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21. The average age of 11 players of a cricket team is increased by 2 months when two of them aged 18 years and 20 years are replaced by two new players. The average age of the new players is
(1) 19years 1 month (2)19years 6months
(3) 19years 11months (4)19years 5months

22. The average age of group of 20 girls is 15 years and that of another group of 25 boys it is 24 years. The average age of the two groups mixed together is
(1) 19.5years (2) 20years (3) 21years (4) 21.5years

23. The mean weight of 34 students of a school is 42kgg. If the weight of the teacher be included, the mean rises by 40 grams. Find the weight of the teacher (in kg).
(1) 55kg (2) 57kg (3) 66kg (4) 56kg

24. The average of six numbers is 32. If each of the first three numbers is increased by 2 and each of the remaining three numbers is decreased by 4, then the new average is
(1) 35 (2) 34 (3) 31 (4) 30

25. The average of five numbers is 7. When three new numbers are included, the average of the eight numbers becomes 8.5. The average of the three new numbers is
(1) 9 (2) 10.5 (3) 11 (4) 11.5

26. A cricketer whose bowling average is 12.4 runs per wicket, takes 5 wickets for 26 runs and thereby decreases his average by 0.4. The number of wickets taken by him till the last match was
(1) 64 (2) 72 (3) 80 (4) 85

27. A batsman in his 12^{th} inning makes a score of 63 runs and there by increases his average scores by 2. What is his average after the 12^{th} innings?
(1) 13 (2) 39 (3) 49 (4) 87

28. In a 20 over match, the required run rate to win is 7.2. If the run rate is 6 at the end of the 15^{th} over, the required run rate to win the match is
(1) 1.2 (2) 13.2 (3) 10.8 (4) 12

29. A cricketer has a mean score of 60 runs in 10 innings. Find out how many runs are to be scored in the eleventh innings to raise the mean score to 62?
(1) 83 (2) 82 (3) 80 (4) 81

30. The batting average of a cricket player for 64 innings is 62 runs. His highest score exceeds his lowest score by 180 runs. Excluding these two innings, the average of remaining innings becomes 60 runs. His highest score was
(1) 180 runs (2) 209 runs
(3) 212 runs (4) 214 runs

31. The batting average for 40 innings of a cricket player is 50 runs. His highest score exceeds his lowest score by 172 runs. If these two innings are excluded, the average of the remaining 38 innings is 48 runs. The highest score of the player is
(1) 165 runs (2) 170 runs
(3) 172 runs (4) 174 runs

32. The average marks secured by 36 students was 52. But it was discovered that an item 64 was misread as 46. What is the correct mean of marks?
(1) 54 (2) 53.5 (3) 53 (4) 52.5

33. The average weight of 12 crewmen in a boat is increased by $\frac{1}{3}$kg, when one of the crewmen whose weight is 55kg is replaced by a new man. What is the weight of that new man?
(1) 58kg (2) 60kg (3) 57kg (4) 59kg

34. The average weight of the 8 oarsmen in boat is increased by $1\frac{1}{2}$kg when one of the crew who weighs 60kg is replaced by a new man. The weight of the new man (in kg) is
(1) 70kg (2) 68kg (3) 71kg (4) 72kg

35. The average of seven numbers is 18. If one of the number is 17 and if it is replaced by 31, then the average becomes.
(1) 21.5 (2) 19.5 (3) 20 (4) 21

36. The mean value of 20 observations was found to be 75, but later on it was detected that 97 was misread as 79. Find the correct mean
(1) 75.7 (2) 75.8 (3) 75.9 (4) 75.6

37. The mean of 20 items is 47. Later it is found that the item 62 is wrongly written as 26. Find the correct mean.
(1) 48.8 (2) 47.7 (3) 49.9 (4) 46.6

38. A tabulator while calculating the average marks of 100 students of an examination, by mistake enters 68, instead of 86 and obtained the average as 58; the actual average marks of those students is
(1) 58.18 (2) 57.82 (3) 58.81 (4) 57.28

39. A student finds the average of ten 2-digit numbers. While copying numbers, by mistake, he writes one number with its digits interchanged. As a result his answer is 1.8 less than the correct answer. The difference of the digits of the number, in which he made mistake, is
(1) 2 (2) 3 (3) 4 (4) 6

40. The average of three numbers is 40. The first number is twice the second and the second one is thrice the third number. The difference between the largest and the smallest numbers is
(1) 30 (2) 36 (3) 46 (4) 60

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22	2	32	4
23	4	33	4
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26	4	36	3
27	2	37	2
28	3	38	1
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