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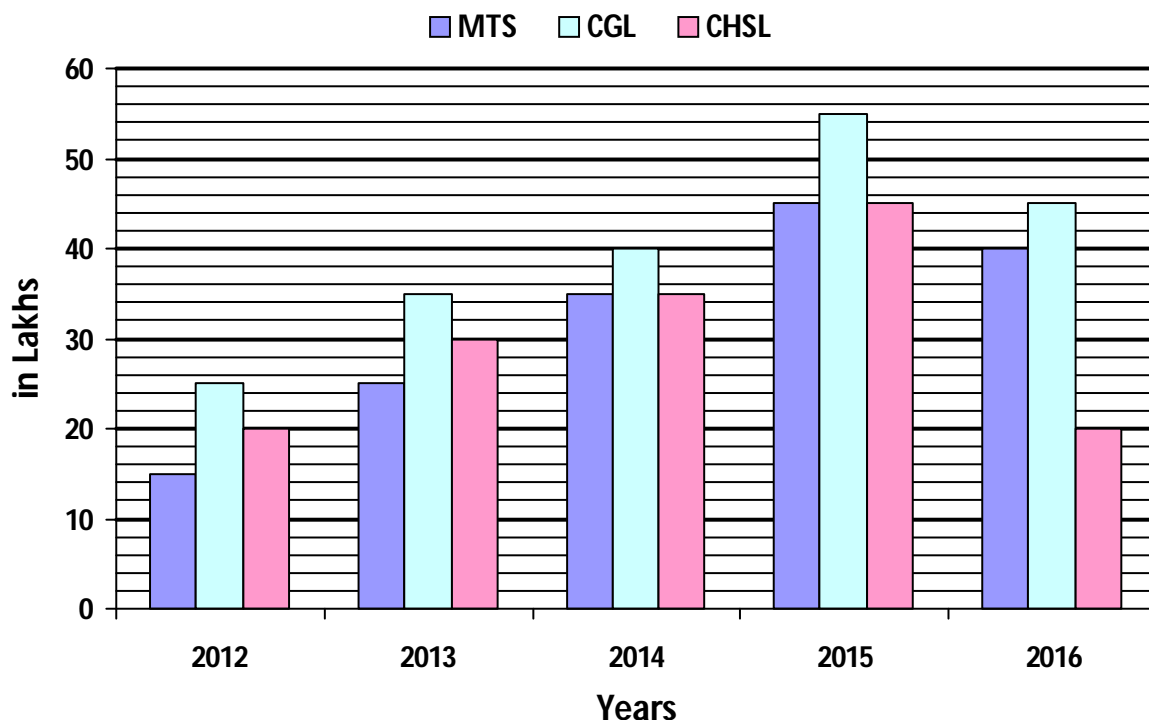


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SBI CLERK / LIC Asst. PRELIMS MODEL TEST - 117 NIACL Asst. TIER-I MODEL TEST - 15

NUMERICAL ABILITY

Directions (31-35): Study the data carefully and answer the following questions.
The Bar-chart shows students registered for three different exams (MTS, CGL and CHSL) in five different years.



31. Find the ratio of total students registered for all the three exams in 2012 and 2013 together to total students registered for all the three exams in 2014 and 2015 together?
1) 11:15 2) 9:17 3) 13:14 4) 7:9 5) 10:17
32. Average number of students registered for MTS exam in all the five years together is how much less/more than the average number of students registered for CHSL exam in all the five years together?
1) 2 2) 4 3) 6 4) 1 5) 5
33. Total number of students registered for CGL in all five years is what percent more than the total number of students registered for CHSL in all the five years together?
1) $33\frac{1}{3}\%$ 2) 45% 3) $66\frac{2}{3}\%$ 4) $46\frac{2}{3}\%$ 5) 28%

34. Out of the total students registered for all the exams in 2016, 80% appeared for the exam. Students who appeared in MTS, CGL and CHSL are in the ratio 3 : 3 : 1. Find how much percent of students appeared for exam MTS out of students registered in that year?(Approximately)

1) 42 2) 44 3) 35 4) 54 5) 62

35. In 2013, out of total students registered for all three exams, 80% appeared, out of which only 25% qualified for the exams. Find the number of students who appeared in the exam but disqualified. (in Lakhs)

1) 36 2) 44 3) 54 4) 62 5) 28

Direction (36-40): What will come in the place of question mark (?) in the following series?

36. 24 12 12 18 36 ?

1) 92.5 2) 108 3) 72 4) 90 5) 88.5

37. 1 13 49 157 481 ?

1) 1345 2) 1249 3) 1221 4) 1453 5) 1383

38. 74 61 87 48 100 ?

1) 165 2) 48 3) 35 4) 22 5) 152

39. 143 151 178 242 367 ?

1) 521 2) 614 3) 496 4) 583 5) 697

40. 15 35 75 155 315 ?

1) 445 2) 595 3) 815 4) 725 5) 635

Direction (41-50): What should come in place of question mark (?) in the following questions?

41. $? \times 65 \div 72 = 195 \times 352 \div 192$

1) 444 2) 396 3) 525 4) 295 5) 421

42. $\sqrt{256} \times \sqrt[3]{1728} = ? \times \sqrt[4]{4096}$

1) 12 2) 16 3) 24 4) 28 5) 32

43. $35\% \text{ of } 180 + 18^2 = (27)^{5/3} + ?^2$

1) 14 2) 16 3) 8 4) 12 5) 18

44. $\frac{323}{357} \times 441 - 15 \times 21 = ?$

1) 72 2) 62 3) 91 4) 74 5) 84

45. $? \times 4 - 40^2 = 14^2 - 36 \times 44$

1) 61 2) 42 3) 68 4) 53 5) 48

46. ?% of 135 = 282.15 – 270
1) 9 2) 11 3) 7 4) 14 5) 18
47. ? = 440 ÷ 88 ÷ 72 × 2916
1) 256 2) 324 3) 118.5 4) 295 5) 202.5
48. $\frac{1}{200} + \frac{1}{400} + \frac{1}{600} + \frac{1}{800} = \frac{4}{?}$
1) 342 2) 384 3) 219 4) 414 5) 426
49. $\frac{9}{2} + \frac{11}{3} + \frac{17}{6} = ? + \frac{12}{5} + \frac{21}{10}$
1) 7 2) 8.5 3) 10.5 4) 6.5 5) 12
50. $5^{7-2} = (5)^5 \div (25)^3 \times (125)^2 \div 625$
1) 1 2) -1 3) 3 4) 2 5) -2
51. A sum of Rs.8000 invested in scheme A at S.I for 2 years at R% per annum and gets some interest. Now he invested the total amount received from scheme A in scheme B at S.I for the same time period at 10% per annum and received Rs.2080 interest. Find the value of R?
1) 18% 2) 10% 3) 15% 4) 20% 5) 12%
52. The population of a city in 2017 increased by 12.5% from 2016 and in 2018, it decreased by 8% with respect to the previous year and in 2019, it again increased by 15% with respect to the previous year. If in 2019, the population of the city is 1190250, then what was the population of the city in 2016? (in lakhs)
1) 10 2) 12 3) 18 4) 15 5) 8
53. A tap can fill a tank in 10 hours. Two equivalent filling taps and one outlet tap are open simultaneously then the tank is filled in $7\frac{1}{2}$ hours. In how much time outlet tap can empty the tank?
1) 8 2) 10 3) 12 4) 15 5) 18
54. A and B invested Rs.5000 and Rs.9000 for 12 months and 6 months respectively. Then profit share of B is how much percent more or less than profit share of A?
1) 10% more 2) 15% less 3) 10% less 4) 15% more 5) 8% less
55. A, B and C invested in a ratio of 7 : 8 : 5 in a business. They got an annual profit of Rs.136800. If A and C withdrew their amount at the end of 3 months and 7 months respectively. Then find the difference between A and C's share of profit?
1) Rs.13,400 2) Rs.12,600 3) Rs.13,300 4) Rs.16,200 5) Rs.11,800

Direction (56-60): Study the following information to answer the given question

The given data is regarding total number of students in class A, B and C, divided into three groups: X, Y and Z.

Class A: Total no. of students are 90. 30 students are in group X. Ratio of the number of students in groups Y and Z is 1:2.

Class B: Total no. of students are 80. The ratio of no. of students in group X, Y and Z is 8: 5: 3.

Class C: The no. of students in group Y are half of that of group X. The no. of students in group X of class C are 20 more than number of students in group X of class A. No. of students in group Z of class C are 20% less than that of group X.

56. The number of students in group X of class B are what percentage of the number of students in group Y of class C?
 1) 120% 2) 140% 3) 160% 4) 125% 5) 100%
57. What is the respective ratio between average number of students in group X in class A and B to the total number of students in class C?
 1) 7:23 2) 9:11 3) 13: 19 4) 11: 15 5) 14:27
58. There are total 34 girls in class A. if 12 girls are in group X, then find the no. of boys in group Y and Z together in class A.
 1) 24 2) 19 3) 42 4) 39 5) 38
59. Find the total number of students in group Y of all the classes.
 1) 90 2) 80 3) 110 4) 70 5) 50
60. Total number of students in group X is how much more or less than that in group Z?
 1) 30 2) 20 3) 25 4) 15 5) 35
61. Area of square is how much percent it's perimeter of side 4m?
 1) 125% 2) 100% 3) 150% 4) 120% 5) 130
62. A shopkeeper sold an article A at 20% gain and another article B at 20% loss. Find her overall gain or loss percent if selling price of both articles were same ?
 1) 4% profit 2) 4% loss 3) 6% loss 4) 6% profit 5) 2% loss
63. Find the probability of selecting two red honor cards from a pack of 52 cards?
 1) $\frac{14}{663}$ 2) $\frac{2}{442}$ 3) $\frac{14}{441}$ 4) $\frac{11}{441}$ 5) $\frac{12}{693}$
64. Sirisha is 25% more efficient than Krishna while Krish is 40% less efficient than Sirisha. If Krishna alone can complete the work in 15 days then in how many days Sirisha and Krish together can complete the work?
 1) 8 days 2) 12.5 days 3) 7.5 days 4) 4.5 days 5) 14 days
65. A boat travels 28 km downstream and 24 km upstream in 5 hrs. The same boat travels 56 km, downstream and 16 km upstream in 6 hrs. Find the ratio between the speed of the boat in still water and the speed of the current?
 1) 11:7 2) 13:7 3) 11:3 4) 9:4 5) 6:21

KEY

31.5	32.1	33.1	34.3	35.3	36.4	37.4	38.3	39.4	40.5
41.2	42.3	43.4	44.5	45.4	46.1	47.5	48.2	49.4	50.3
51.3	52.1	53.4	54.3	55.2	56.3	57.1	58.5	59.4	60.3
61.2	62.2	63.1	64.3	65.3					