MEMORY BASED SBI CLERK Prelims MATHS Questions

Directions (36-40): What should come in the place of question mark (?) in the following questions?

36. $\frac{7}{5}$ of $58 + \frac{3}{8}$ of $139.2 = ?$

(a) 133.4 (b) 137.2 (c) 127.8
(d) 131.6 (e) None of these

37. 12% of $555 + 15\%$ of $666 = ?$

(a) 166.5 (b) 167.5 (c) 168.5
(d) 169.5 (e) None of these

38. $84368 + 65466 - 72009 - 13964 = ?$

(a) 61481 (b) 62921 (c) 63861
(d) 64241 (e) None of these

39. $33^{7.8} \times 33^{1.2} \div 33^{5} = 33 \times 33^{?}$

(a) 2.8 (b) 3 (c) 3.2
(d) 4 (e) 6

40. $\frac{?}{529} = \frac{324}{?}$

(a) 404 (b) 408 (c) 410
(d) 414 (e) 416

Directions (41-45): Study the following table carefully and answer the given questions:

The number of various crimes, as supplied by national crime record, reported in different states in the year 2012-13.

Dist.	Stalking	Assault	Theft	Murder	Criminal Trespass
Bihar	352	496	265	132	332
MP	376	225	216	125	115
UP	85	125	53	56	57
HP	10545	3652	12224	354	10128
AP	445	225	252	173	154
Delhi	473	576	675	764	852
Haryana	245	256	257	261	263
Rajasthan	273	276	278	252	353

41. The total number of various crimes in HP is

(a) 37803 (b) 38903 (c) 37903
(d) 36903 (e) 37003

42. Find the ratio of Stalking and Assault in UP to Theft and Criminal Trespass in Haryana.

(a) 28 : 51 (b) 21 : 52 (c) 52 : 21
(d) 14 : 55 (e) 55 : 14

43. Find the approximate average of Murder and Theft in all the eight states together.

(a) 1141 (b) 1132 (c) 1311
(d) 941 (e) 1021

44. The total number of Assaults and Murders together in Bihar is what per cent of the total number of crimes in that state?

(a) 29.82% (b) 39.82% (c) 25%
(d) 21.82% (e) 25.5%

45. Find the difference between the number of various crimes committed in Bihar and that in Rajasthan.

(a) 105 (b) 98 (c) 145
(d) 139 (e) 104

Directions (46-50): What should come in the place of question mark (?) in the following questions?

46. $4376 + 3209 - 1784 + 97 = 3125 + ?$

(a) 2713 (b) 2743 (c) 2773
(d) 2793 (e) 2737

47. $\sqrt{?} + 14 = \sqrt{2601}$

(a) 1521 (b) 1369 (c) 1225
(d) 961 (e) 1296

48. 85% of $420 + ?\%$ of $1080 = 735$

(a) 25 (b) 30 (c) 35
(d) 40 (e) 45

49. $\frac{7}{3}$ of $\frac{5}{4}$ of $\frac{1}{9}$ of $3024 = ?$

(a) 920 (b) 940 (c) 960
(d) 980 (e) 840

50. 30% of $1225 - 64\%$ of $555 = ?$

(a) 10.7 (b) 12.3 (c) 13.4
(d) 17.5 (e) None of these

51. How many litres of water should be added to a 30 litre mixture of milk and water containing milk and water in the ratio of 7 : 3 such that the resultant mixture has 40% water in it?

(a)5 (b)2 (c)3
(d)8 (e) 7

52. The S.I on certain sum of money for 15 months at rate of 7.5% per annum exceed the S.I on same sum at 12.5% per annum for 8 months by Rs 3250 find sum?

(a) 160000 (b)20000 (c) 170000
(d)18000 (e)312000

53. 4 men and 3 women finish a job in 6 days, and 5 men and 7 women can do the same job in 4 days. How long will 1 man and 1 woman take to do the work?

(a) $22(\frac{2}{7})$ days (b) $25(\frac{1}{2})$ days (c) $5(\frac{1}{7})$ days
(d) $12(\frac{7}{22})$ days (e) None of these

54. A and B started a business with initial investments in the ratio 5 : 7. If after one year their profits were in the ratio 1 : 2 and the period for A's investment was 7 months, B invested the money for

(a) 6 months (b) 2 ½ months (c) 10 months
(d) 4 months (e) 7 months

55. An army lost 10% its men in war, 10% of the remaining due to diseases and 10% of the rest were disabled. Thus, the strength was reduced to 729000 active men. Find the original strength.

(a) 1000000 (b) 1200000 (c) 1500000
(d) 1800000 (e) none of these

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56. What is the difference between the compound interests on Rs. 5000 for 1 years at 4% per annum compounded yearly and half-yearly?
(a)2 (b)3 (c)4
(d)8 (e)none of these

57. The speeds of John and Max are 30 km/h and 40 km/h. Initially Max is at a place L and John is at a place M. The distance between L and M is 650 km. John started his journey 3 hours earlier than Max to meet each other. If they meet each other at a place P somewhere between L and M, then the distance between P and M is :
(a) 220 km (b) 250 km (c) 330 km
(d) 320 km (e) None of these

58. The average weight of boys in a class is 30 kg and the average weight of girls in the same class is 20 kg. If the average weight of the whole class is 23.25 kg, what could be the possible strength of boys and girls respectively in the same class?
(a) 14 and 26 (b) 13 and 27 (c) 17 and 27
(d) 19 and 21 (e) None of these

59. A profit of 8% is made by selling a shirt after offering a discount of 12%. If the marked price of the shirt is Rs.1080, find its cost price
(a) 890 (b) 780 (c) 880
(d) 900 (e) none of these

60. The difference between $\frac{4}{5}$ of a number and 45% of the number is 56. What is 65% of the number?
(a) 96 (b) 104 (c) 112
(d) 120 (e) None of these

61. A man can row 24 km upstream and 54 km downstream in 6 hours. He can also row 36 km upstream and 48 km downstream in 8 hours. What is the speed of the man in still water?
(a) 18.75 kmph (b) 19.25 kmph
(c) 17.65 kmph (d) 15.55 kmph (e) 22.75 kmph

62. The numerator of a fraction is decreased by 25% and the denominator is increased by 250%. If the resultant fraction is $\frac{6}{5}$, what is the original fraction?
(a) $\frac{22}{5}$ (b) $\frac{24}{5}$ (c) $\frac{27}{6}$
(d) $\frac{28}{5}$ (e) $\frac{30}{11}$

63. What would be the area of a rectangle whose area is equal to the area of a circle of radius 7 cm?
(a) 77 cm^2 (b) 154 cm^2 (c) 184 cm^2
(d) 180 cm^2 (e) 150 cm^2

64. In a village three people contested for the post of village Pradhan. Due to their own interest, all the voters voted and no one vote was invalid. The losing candidate got 30% votes. What could be the minimum absolute margin of votes by which the winning candidate led by the nearest rival, if each candidate got an integral per cent of votes?
(a) 4 (b) 2 (c) 1
(d) 3 (e) None of these

65. The price of an article is first increased by 20% and later on the price were decreased by 25% due to reduction in sales. Find the net percentage change in final price of Article.
(a) 20% (b) 18% (c) 38%
(d) 10% (e) None of these

Directions (66–70): What will come in the place of the question mark (?) in the following number series?

66. 48, 23, ?, 4.25, 1.125
(a) 10.5 (b) 10 (c) 2.5
(d) 11 (e) None of the above

67. 2, 15, 41, 80, 132, ?
(a) 197 (b) 150 (c) 178
(d) 180 (e) None of the above

68. ?, 15, 75, 525, 4725, 51975
(a) 5 (b) 10 (c) 8
(d) 6 (e) None of the above

69. 4, 19, 49, ?, 229
(a) 75 (b) 109 (c) 65
(d) 169 (e) None of the above

70. 840, ?, 420, 140, 35, 7
(a) 408 (b) 840 (c) 480
(d) 804 (e) None of the above

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