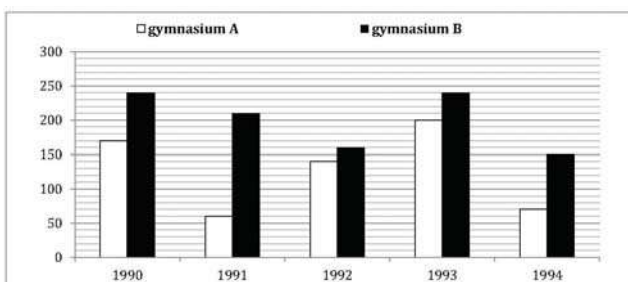


**Memory Based
Paper of
SBI PO Prelims
2016**

Quantitative Aptitude

Memory Based Quantitative Aptitude Paper of SBI PO Prelims 2016

Directions (1-5): In the Bar-chart, total members enrolled in different years from 1990 to 1994 in two gymnasium A and B. Based on this Bar chart solve the following questions-



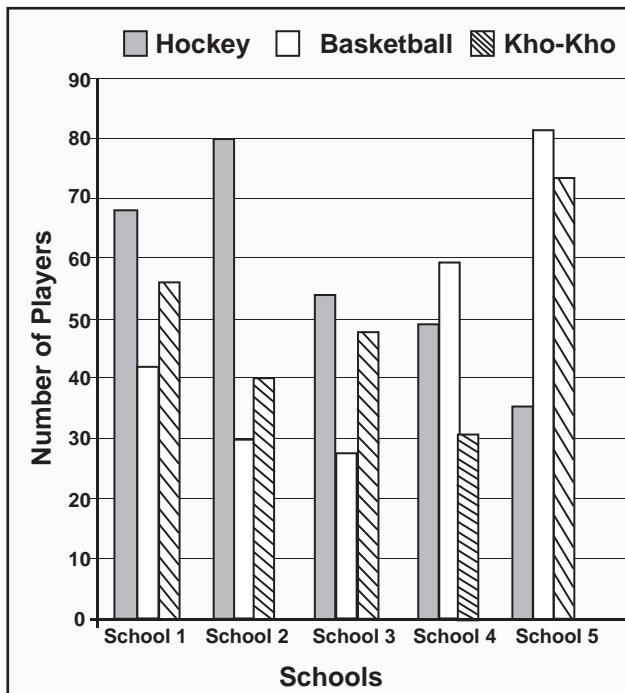
- 1. If in the year 1995 there is 30% increase in total number of members enrolled then in 1994 by both gymnasium, then find the total no. of members enrolled in 1995?**
 - (a) 282
 - (b) 296
 - (c) 292
 - (d) 286
 - (e) none of these
 - 2. The ratio between total members of both gymnasium in 1991 to total members in 1994 of both gymnasium is-**
 - (a) 22:27
 - (b) 21:11
 - (c) 11:21
 - (d) 25:13
 - (e) 27:22
 - 3. The number of members of gymnasium A in 1991 is what % of the no. of members of gymnasium B in 1994.**
 - (a) 60%
 - (b) 55%
 - (c) 58%
 - (d) 62%
 - (e) none of these
 - 4. The total number of members enrolled in gymnasium A from 1991 to 1994 together is what percent more than the total number of members enrolled in gymnasium B in 1993 and 1994 together?(Rounded off to 2 decimal places)**
 - (a) 10.51%
 - (b) 20.51%
 - (c) 15.51%
 - (d) 17.51%
 - (e) none of these
 - 5. Total member enrolled in gymnasium B in 1993 and 1994 together is what % more than members enrolled in gymnasium A in 1990 and 1994 together?**
 - (a) 60%
 - (b) 65%
 - (c) 62.5%
 - (d) 61.5%
 - (e) none of these
- Directions (6-10):** What should come in place of question mark (?) in the following number series?
- 6. 4,3,4,7,15, ?**
 - (a) 38.5
 - (b) 40
 - (c) 45
 - (d) 37.5
 - (e) none of these
 - 7. 7,5,7,17,63, ?**
 - (a) 321
 - (b) 309
 - (c) 305
 - (d) 301
 - (e) none of these

8. **11,14,19,28,43, ?**
- (a) 60
(b) 63
(c) 66
(d) 70
(e) none of these
9. **2 60 10 120 30 ?**
- (a) 222
(b) 216
(c) 208
(d) 230
(e) None of these
10. **23 50 108 232 492 ?**
- (a) 1028
(b) 1024
(c) 1020
(d) 1032
(e) None of these
11. **A mixture contains wine and water in the ratio 3 : 2 and another mixture contains them in the ratio 4 : 5. How many litres of the latter must be mixed with 3 litres of the former so that the resultant mixture may contain equal quantities of wine and water?**
- (a) $1\frac{2}{3}$ litre
(b) $5\frac{2}{5}$ litre
(c) $4\frac{1}{2}$ litre
(d) $3\frac{3}{4}$ litre
(e) None of these
12. **A trader sells two bullocks for Rs. 8,400 each, neither losing nor gaining in total. If he sold one of the bullocks at a gain of 20%, the other is sold at a loss of**
- (a) 20%
(b) 18.29%
(c) 14.27%
(d) 21%
(e) None of these
13. **Two trains, A and B, start from stations X and Y towards each other, they take 4 hours 48 minutes and 3 hours 20 minutes to reach Y and X respectively after they meet. If train A is moving at 45 km/hr., then the speed of the train B is**
- (a) 60 km/hr
(b) 64.8 km/hr
(c) 54 km/hr
(d) 37.5 km/hr
(e) None of these
14. **Out of his total income, Mr. Kapoor spends 20% on house rent and 70% of the remaining on house hold expenses. If he saves Rs 1,800 what is his total income (in rupees)?**
- (a) Rs 7,800
(b) Rs 7,000
(c) Rs 8,000
(d) Rs 7,500
(e) None of these
15. **A can do a piece of work in 8 days which B can destroy in 3 days. A has worked for 6 days, during the last 2 days of which B has been destroying. How many days must A now work alone to complete the work?**
- (a) 7 days
(b) $7\frac{13}{23}$ days
(c) $7\frac{23}{23}$ days
(d) 8 days
(e) None of these
16. **There are 3 red balls, 4 blue balls and 5 white balls. 2 balls are chosen randomly. Find probability that 1 is red and the other is white.**
- (a) $\frac{5}{22}$
(b) $\frac{5}{23}$
(c) $\frac{7}{22}$
(d) $\frac{4}{9}$
(e) None of these
17. **Three Science classes A, B and C take a Life Science test. The average score of students of class A is 83. The average score of students class B is 76. The average score of class C is 85. The average score of class A and B is 79 and average score of class B and C is 81. Then the average score, of classes A, B and C is**
- (a) 80
(b) 80.5
(c) 81
(d) 81.5
(e) None of these

18. A hemispherical bowl of internal diameter 54 cm contains a liquid. The liquid is to be filled in cylindrical bottles of radius 3 cm and height 9 cm. How many bottles are required to empty the bowl?

- (a) 221
- (b) 343
- (c) 81
- (d) 243
- (e) 162

Directions (19-23): Number of players participating in three different games in five different schools



19. What is the total number of players participating in hockey from all the five schools together?

- (a) 324
- (b) 288
- (c) 342
- (d) 284
- (e) 248

20. What is the respective ratio between number of players participating in basketball from school 1 and the number of players participating in Kho Kho from school 3?

- (a) 5:7
- (b) 7:9
- (c) 7:8
- (d) 9:7

(e) 5:8

21. In which school is the number of player participating in hockey and basketball together second highest?

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

22. Number of players participating in Kho-Kho from school 4 is what percent of number of players participating in hockey from school 2?

- (a) 42
- (b) 48
- (c) 36
- (d) 40
- (e) 60

23. 25% of the numbers of the players participating in hockey from school 5 are females. What is the number of the hockey players who are males in school 5?

- (a) 15
- (b) 18
- (c) 30
- (d) 21
- (e) 27

Directions (24-28): In each of these questions, two equations (I) and (II) are given.

24. I. $16x^2 - 40x - 39 = 0$
 II. $12y^2 - 113y + 255 = 0$

- (a) $x > y$
- (b) $x < y$
- (c) $x \geq y$
- (d) $x \leq y$
- (e) $x = y$ or no relation can be established between 'x' and 'y'.

25. I. $x^2 - 7\sqrt{7}x + 84 = 0$
 II. $y^2 - 5\sqrt{5}y + 30 = 0$

- (a) $x > y$
- (b) $x < y$
- (c) $x \geq y$
- (d) $x \leq y$
- (e) $x = y$ or no relation can be established between 'x' and 'y'.

26. I. $x^{1/3} = 6859$
II. $y^2 = 361$
(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) $x = y$ or no relation can be established between 'x' and 'y'.
27. I. $2x^2 + 19x + 42 = 0$
II. $4y^2 + 43y + 30 = 0$
(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) $x = y$ or no relation can be established between 'x' and 'y'.
28. I. $72 - 30x = -2x^2$
II. $y^2 - 40/6 = 7/3$
(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) $x = y$ or no relation can be established between 'x' and 'y'.
29. $564.666 + 82.5091 \times 44.581 - 34.111 = ?$
(a) 28450
(b) 4000
(c) 1600
(d) 14225
(e) 4210
30. $3\frac{2}{9}$ of 298.87 = ? % of 6788.89 - 2135.91
(a) 46
(b) 90
(c) 26
(d) 56
(e) 11.35
31. $23. (28/9) \times (264/12) \div (17/5) + (13/17) = ?$
(a) 16
(b) 19
(c) 12
(d) 25
(e) None of these
32. $359.99\% \text{ of } 899.97 + 164.95\% \text{ of } 8984.01 - 1186.002 = ?$
(a) 19469
(b) 15896
(c) 17956
(d) 16878
(e) 21659
33. $754 \div \sqrt{4136} \times 24 = ?$
(a) A. 294
(b) B. 276
(c) C. 265
(d) D. 300
(e) E. 288
34. The income of A is 150% of the income of B and the income of C is 120% of the income of A. If the total income of A, B and C together is Rs. 86000, what is C's income?
(a) Rs. 30000
(b) Rs. 32000
(c) Rs. 20000
(d) Rs. 36000
(e) None of these
35. A can do a piece of work in 8 days which B can destroy in 3 days. A has worked for 6 days, during the last 2 days of which B has been destroying. How many days must A now work alone to complete the work?
(a) 7 days
(b) $7\frac{1}{3}$ days
(c) $7\frac{2}{3}$ days
(d) 8 days
(e) None of these