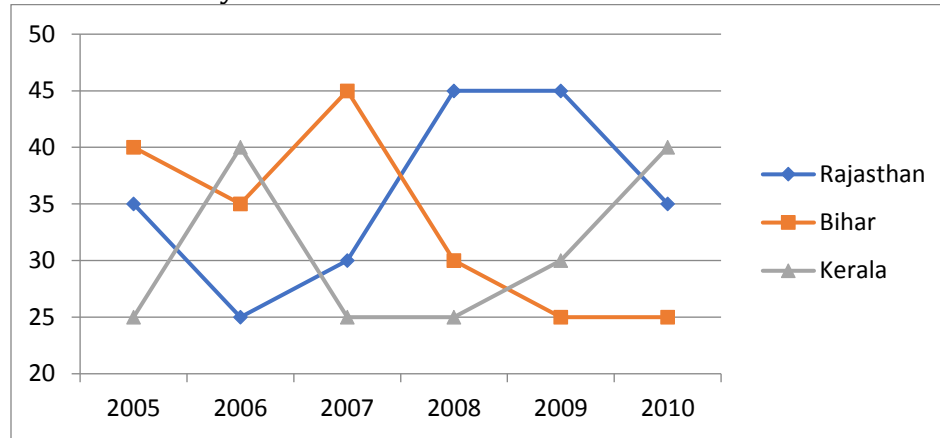**Quiz Date: 12th May 2020**

Directions (1-5): **Study the following graph carefully & answer accordingly.**
The following graph shows the percentage of number of girls born in three different states of India for the years 2005-2010

Q1. If the total no. of girls born in Kerala were 70,000 in 2007, then find the total number of girls born in Rajasthan in the same year 2007.
(a) 85,000
(b) 80,000
(c) 84,000
(d) 1,30,000
(e) 1,02,000

Q2. The average value of percentage of girls born in Rajasthan throughout the six years together is approximately how many times the average value of percentage of girls born in Kerala over all the years together?
(a) 3
(b) 1.5
(c) 2.5
(d) 2
(e) 1.16

Q3. From 2008 to 2009, there was increment of 20% in total no. of girls born in all three states. If no. of girls born in Bihar in 2009 was 60,000 then find the total no. of girls born in Rajasthan in 2008.
(a) 90,000
(b)1,00,000
(c) 95,000
(d) 85,000
(e) 1,05,000

Q4. If number of girls born in Rajasthan in 2006 was 80,000, then find the average number of girls born in Bihar and Kerala together in 2006.

(a) 1,21,000
(b) 1,15,000
(c) 1,25,000
(d) 1,20,000
(e) 1,00,000

Q5. If in 2008, there were 30,000 girls born in Bihar then find the ratio of no. of girls born in Kerala and Rajasthan in that year.
(a) 2 : 3
(b) 9 : 5
(c) 5 : 9
(d) 6 : 5
(e) 3 : 2

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Directions (6-10): The following table shows the total number of employees working in company WIPRO and ratio of men to women over six different years. Study the table and answer the questions that follow.

Years	Total number of employees	Men : Woman
2002	8,00,000	7 : 3
2003	8,50,000	11 : 6
2004	9,54,500	3 : 2
2005	9,80,500	11 : 9
2006	8,65,000	13 : 12
2007	9,25,000	1 : 1

Q6. Find the approximate average no. of women employees in the year 2002 and 2006 together.
(a) 327600
(b) 385550
(c) 426500
(d) 456500
(e) 520500

Q7. The women employees working in the company in the years 2003 and 2005 together are what percent of total employees in the year 2003? (up to two decimal place)
(a) 81.50%
(b) 91.25%
(c) 87.20%
(d) 105.12%
(e) 75.05%

Q8. If 20% employees are fired in the year 2007, then find the no. of women employees who got fired in 2007?
(a) 85,500
(b)1,05,000
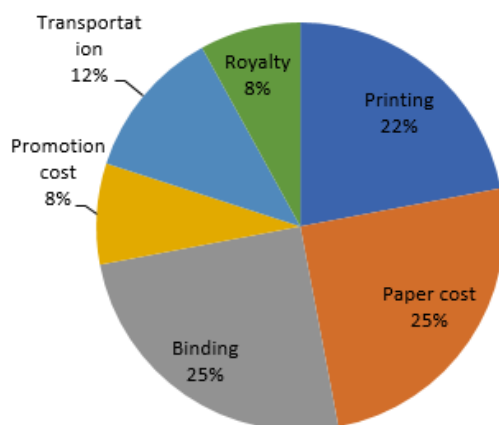(c) Cannot be determined
(d) 92,500
(e) 1,10,500

Q9. What is the difference between no. of male employees in years 2003, 2004 and 2007 together and no. of female employees in the same years together?
(a) 4,40,900
(b) 5,50,000
(c) 6,55,000
(d) 7,65,000
(e) 6,58,00

Q10. In which year, the gap between man and woman employees is maximum
(a) 2002
(b) 2003
(c) 2005
(d) 2006
(e) 2007

Directions (11-15): The following pie chart shows the % distribution of the expenditure incurred in publishing a book.

Q11. Which of the two expenditure together have a central angle is 72°?
(a) Transportation & Royality
(b) Transportation & Printing cost
(c) Binding & Printing
(d) Binding & Royalty
(e) None of these

Q12. If for an edition of book, the cost of paper is Rs. 66850, what will be the promotion cost for this edition.
(a)Rs. 54580
(b)Rs. 23480
(c)Rs. 22302
(d)Rs. 21392
(e) Rs. 21932

Q13. If 5000 copies are published and the transportation cost on them amounts to Rs. 96000, then what should be the selling price of the books so that publisher can earn a profit of 30% ?
(a)Rs. 1098000
(b)Rs. 2345678
(c) Rs. 1040000
(d)Rs. 1045680
(e) Rs. 1060000

Q14. For an edition of 1250 copies, Binding cost amounts to Rs. 887500, what should be the SP of the one book if publisher desires a profit of 10% ?
(a)Rs. 3000
(b)Rs. 3124
(c)Rs. 4125
(d)Rs. 5214
(e) Rs. 3024

Q15. If printing cost is Rs. 99000 for an edition. What would be the difference between the cost of binding & promotion cost?
(a)Rs. 75550
(b)Rs. 74520
(c)Rs. 76500
(d)Rs. 77850
(e) Rs. 73500

Solutions

S1. Ans.(c)
Sol.
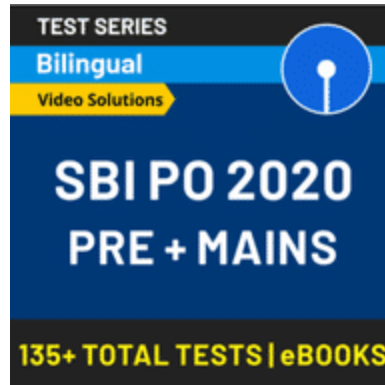
Total girls born in the year 2007 in
all the three states
$$= \frac{100}{25} \times 70,000$$
$$= 2,80,000$$
∴ Girls born in Rajsthan in 2007
= 30% of 280000
= 84,000

S2. Ans.(e)
Sol.
Average of percentage of girls in Rajsthan
$$= \frac{1}{6} \times (35 + 25 + 30 + 45 + 45 + 35)$$
$$= \frac{215}{6}$$
Average of percentage of girls born in Keral
$$= \frac{1}{6} \times (25 + 40 + 25 + 25 + 30 + 40)$$
$$= \frac{185}{6}$$
∴ Required answer $= \frac{215}{185}$
$$\simeq 1.16$$

S3. Ans.(a)
Sol.

Total girls born in 2009 in all states

$$= \frac{100}{25} \times 60,000$$

$$= 2,40,000$$

∴ Total girls born in 2008

$$= 2,40,000 \times \frac{100}{120}$$

$$= 2,00,000$$

∴ Required answer $= \frac{45}{100} \times 2,00,000$

$$= 90,000$$

S4. Ans.(d)
Sol.
Required average

$$= \frac{1}{2} \times \left(\frac{100}{25} \times 80,000 - 80,000 \right)$$

$$= \frac{1}{2} \times 2,40,000$$

$$= 1,20,000$$

S5. Ans.(c)
Sol.

Required ratio $= \frac{25}{45}$

$$= \frac{5}{9}$$

S6. Ans.(a)
Sol.
Required average no. of women employees

$$= \frac{1}{2} \times (3 \times 80000 + 12 \times 34600)$$

$$= \frac{1}{2} \times 655200$$

$$= 327600$$

S7. Ans.(c)
Sol.

Women working in company in years
2003 and 2005
$$= \frac{6}{17} \times 850000 + \frac{9}{20} \times 980500$$
$$= 300000 + 441225$$
$$= 7,41,225$$
$$\therefore \text{ Required percentage} = \frac{741225}{850000} \times 100$$
$$= 87.20\%$$

S8. Ans.(c)
Sol.
Cannot be determined.

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S9. Ans.(a)
Sol.
Required difference
= (11 × 50000 + 3 × 190900 + 462500) − (6 × 50000 + 2 × 190900+ 462500)
= 4,40,900

S10. Ans.(a)
Sol.
Gap in man and woman employees in year 2002
= 4 × 80000
= 320000
In year 2003
= 5 × 50000
= 250000
In rest years gap looks smaller than the above data calculated
∴ maximum gap is in year = 2002

S11. Ans.(a)
Sol.

100% = 360

∴ 1% = 3.6°

or, $72° = \frac{1}{3.6} \times 72 = 20\%$

In given option, transport &
Royalty have combined 20%

S12. Ans.(d)
Sol.

25% = 66850

∴ $8\% = \frac{66850}{25} \times 8 = Rs\ 21392$

S13. Ans.(c)
Sol.

Rs 96000 → 12%

∴ Total cost = Rs 800000

Desired SP = 130 × 8000 = Rs 1040000

S14. Ans.(b)
Sol.

25% → 887500

100% → 887500 × 4 = CP of 1250 copies

∴ CP of one copy $= \frac{887500 \times 4}{1250} = 2840$

Desired selling price $= 2840 \times \frac{110}{100} = 3124$

S15. Ans.(c)
Sol.

Printing cost = 22% → 99000

∴ $(25\% - 8\%) \rightarrow \frac{99000}{22} \times 17 = Rs\ 76500$

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