
Bipin Nambiar
(SBI PO 2018)
Shiraz Khan
(SBI Clerk 2018)
Kuldeep Yadav
(SBI PO 2018)
Rajat Saxena
(IBPS Clerk 2018)
Anupam Tyagi
(IBPS PO 2018)
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The Question Bank

DI table Chart Questions for SBI PO Mains, IBPS PO Mains and RBI Grade B Exams.

DI Table Chart No. 109

Directions: Study the following tab le chart carefully and answer the questions given beside.

The villages of a district are classified into six categories, A through F, based on their population. The following table gives the number of villages in the district belonging to different categories in the years 2006 and 2016.

Category	Population	No. of Villages in 2006	No. of Villages in 2016	Ratio of no. of male to female	Number of Adults in population	Literacy rate among adults ×
A	< 200	104	92	5 : 3	60%	60%
B	200 – 500	141	127	2 : 5	50%	50%
C	501 – 1000	145	144	5 : 3	60%	40%
D	1001 – 2000	110	129	3 : 2	60%	40%
E	2001 – 5000	62	80	6 : 7	40%	80%
F	> 5000	13	18	8 : 7	64%	50%

The ratio of literacy for males to females in every category is the same as the ratio of population of males to females given in the table

1. Find the population of category F village if 25% of adult female literate are doctors, 20% of rest adult female literate are engineers, 25% of rest of adult female literate are teachers and remaining 1008 of adult female literate are CA.

A. 12000 B. 16000 C. 20000 D. 24000 E. 30000

2. Find the average population of villages of category D in 2006 if there 15840 adult females are literate in category D from all the villages combined.

A. 1200 B. 1500 C. 1800 D. 2000 E. 2400

3. In 2016, find the total population in category B villages was at least what percentage of the total population in category E villages?

A. 6.35% B. 6.75% C. 7.15% D. 7.25% E. 8.00%

4. If the total population in category D villages in 2016 was less than that in 2006, find what could be the least possible average population of category D villages in 2006? (approx)

A. 1165 B. 1174 C. 1192 D. 1204 E. 1222

5. **In village of category A, consider all the villages have equal population. Find what could be the maximum number of employed women in percentage among all adults if only literate women can have jobs.**

A. only 5.625% B. less than 5.625% C. only 5.25% D. more than 5.625% E. more than 5.625%

Correct Answers:

1	2	3	4	5
D	B	A	B	B

Answers :

1. Let there be 1000y adult literate females, then
$0.75 \times 0.8 \times 0.75 \times 1000y = 1008$
$y = 2.24$
So, adult literate female = 2240

Now, total adult literate = $\frac{8+7}{7} \times 2240 = 4800$

We have,
50% of Total adult (literate + illiterate) = 4800
So, Total adult (literate + illiterate) = $4800 \times 2 = 9600$
Then we have,
64% of Total population = number of adults (literate + illiterate) = 9600

Total Population = $\frac{100}{64} \times 9600 = 24000$

Hence, option D is correct.

2.

Number of literate adults = $\frac{5}{2} \times 15840 = 39600$

Number of adults (literate + illiterate) = $\frac{100}{40} \times 39600$

Total population = $\frac{100}{60} \times \left(\frac{100}{40} \times 39600\right) = 165000$

Average population of villages = $\frac{165000}{110} = 1500$

Hence, option B is correct.

3. Here we have to take the least possible population of category B and the highest possible population of category E villages.

In 2016, least possible population of category B villages = 127×200
Highest possible population of category E villages = 80×5000

The percentage = $\frac{127 \times 200}{80 \times 5000} \times 100 = 6.35\%$
Hence, option A is correct.

4. To find the least possible population of D in 2006, we must start with least possible population of D category villages in 2016.

So,

Total Population of D type villages in 2016 = 1001 × 129

Since, it is less than what the population was in 2006, the population in 2006 must be in the form = 1001 × 129 + y, where y = 1, 2, 3, and so on.

But we have to tell the minimum possible population, we must choose y = 1.

So, total population in 2006 = 1001 × 129 + 1 = 129130

$$\text{Average population} = \frac{129130}{110} = 1173.9 = 1174 \text{ (approx)}$$

Hence, option B is correct.

5. Let the population of any village of category A be 800y, then

Number of adults (lit. + ill.) = 60% of 800y = 480y
Number of literate adults = 60% of 480y = 288y
Number of literate females = $\frac{3}{8} \times 288y = 108y$ -------(i)

Now, according to the condition, we have

$800y < 200 \rightarrow y < \frac{1}{4}$

Therefore, we have from (i),
Number of literate females = 108y < 27 (max)

To find the maximum number of employed women, it is possible that all are employed, so

$$\text{Percentage} = \frac{\text{number of employed females}}{\text{all adults}} \times 100$$

$$= \frac{27y}{480y} \times 100 = 5.625\%$$

So, less than 5.625% literate women among all the adults are employed.

Hence, option B is correct.