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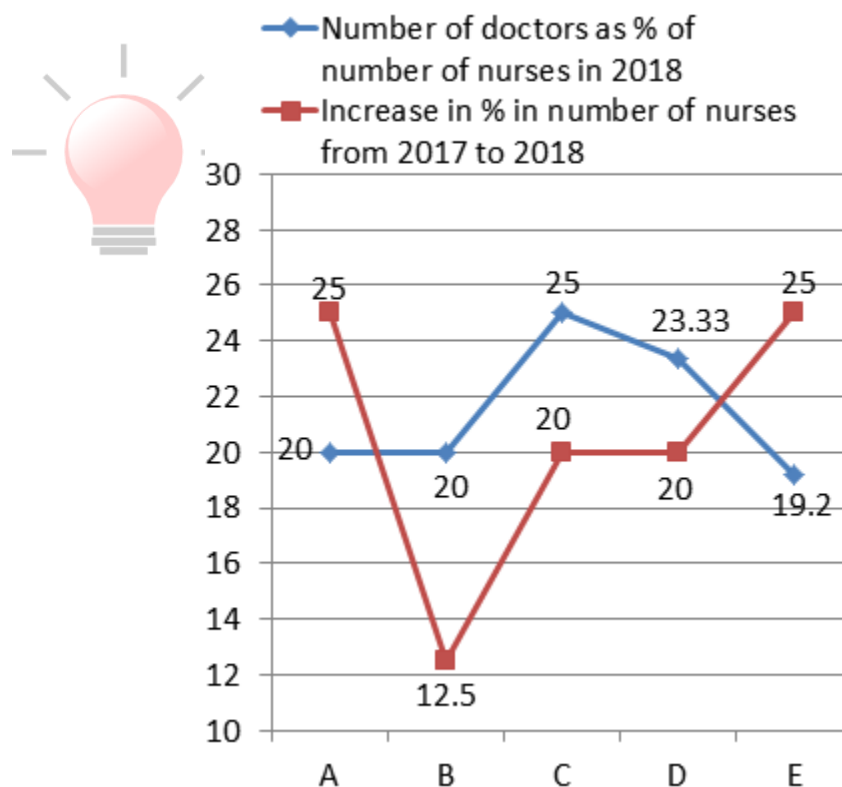
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Line Chart Questions for IBPS RRB Scale I (Mains) Exams – Line Chart Quiz at Smartkeeda.

DI Line Chart No 52

Directions : Study the following line and table chart carefully and answer the questions given beside.

There are five big hospitals namely A, B, C, D and E in a city. Information about the number of doctors and nurses are given in the line chart. The line chart shows number of doctors as percent of number of nurses in 2018 and the increase in percent in number of nurses from 2017 to 2018.



The table chart gives information about number of doctors in 2017 and number of beds in each hospital for both the years remain same.

Hospitals	Number of Doctors in 2017	Number of Beds	Number of Nurses to Beds in 2017
A	36	640	1 : 4
B	32	480	1 : 3
C	40	600	1 : 4
D	50	480	5 : 12
E	50	720	5 : 18

Condition : According to health department advisory, there must be five nurses for each doctor and one nurse for two beds.

1. In which of the following hospitals the number of doctors did NOT increase from year 2017 to 2018.

- A. A B. B C. C D. D E. E

2. Average number of nurses in 2018 is what percentage more than the average number of nurses in 2017?

- A. $20\frac{40}{87}\%$ B. $30\frac{50}{87}\%$ C. $20\frac{20}{29}\%$ D. $18\frac{20}{29}\%$ E. None of these

3. In hospital B in 2018, numbers of unoccupied beds were 20% of occupied beds. How many more doctors and nurses the hospital needs for the occupied beds?

- A. 20 nurses and 4 doctors B. 20 nurses and 6 doctors C. 24 nurses and 4 doctors
D. 24 nurses and 6 doctors E. 20 nurses and 5 doctors

4. In hospital C, the numbers of unoccupied beds in 2018 were 15%. If the more number of doctors that are needed in 2018 was equal to the more number of doctors that were needed in the year 2017 as per the health department advisory, what percent of beds were unoccupied in the year 2017?

- A. 12% B. 16% C. 18% D. 20% E. 23.33%

5. In 2018 for all the hospitals altogether, how many more nurses are required to be recruited so that the health department advisory can be fulfilled that for each doctor a hospital needs five nurses. (No need to fulfil the requirement of one nurse for two beds)

- A. 45 B. 50 C. 60 D. 75 E. 90

Correct Answers:

1	2	3	4	5
B	C	A	E	D

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Common Explanations (1-5):

From the table chart, in 2017 in hospital A, the number of nurses

$$= \frac{1}{4} \times 640 = 160$$

From the line chart, in 2018 in hospital A, the number of nurses = $1.25 \times 160 = 200$

From the table chart, in 2018 in hospital A, the number of doctors = 20% of 200 = 40

Similarly, we find for each hospital in each year.

Hospitals	Number of Doctors in 2017	Number of Doctors in 2018	Number of Nurses in 2017	Number of Nurses in 2018	Number of Beds
A	36	40	160	200	640
B	32	36	160	180	480
C	40	45	150	180	600
D	50	56	200	240	480
E	50	48	200	250	720

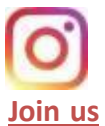
According to the health department advisory, there must be

5 nurses -----→ 1 doctor

2 beds -----→ 1 nurse

Therefore,

10 beds -----→ 1 doctor



1.

Total number of sanitizer bottles sold by shop B and shop C in week 2 = $820 + 680 = 1500$

$$\text{Reqd. \%} = \frac{840}{1500} \times 100 = 56\%$$

Hence, option B is correct.

2.

From common explanation, we have

Average number of nurses in 2017

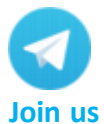
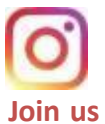
$$= \frac{160 + 160 + 150 + 200 + 200}{5} = 174$$

Average number of nurses in 2018

$$= \frac{200 + 180 + 180 + 240 + 250}{5} = 210$$

$$\text{Percentage} = \frac{210 - 174}{174} \times 100 = 20\frac{20}{29}\%$$

Hence, option C is correct.



3.

From the common explanation, we have

Let the number of occupied beds = y

Number of unoccupied beds = 20% of number of occupied beds = $0.2y$

Total number of beds = 480

$$1.2y = 480$$

$$\text{So, } y = 400$$

Number beds that will get required number of nurses = $2 \times 180 = 360$

Number beds that will get required number of doctors = $10 \times 36 = 360$

We have 40 occupied beds that need doctors and nurses.

For two beds, we need 1 nurse, so number of nurses

$$= \frac{40}{2} = 20$$



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For five nurses, we need 1 doctor, number of doctors

$$= \frac{20}{5} = 4$$

The hospital needs 20 nurses and 4 doctors.

Hence, option A is correct.



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4.

From common explanation, we have

Number of occupied beds in 2018 = 85% of 600 = 510

Number beds that have doctors = $45 \times 10 = 450$

More number of doctors needed

$$= \frac{510 - 450}{10} = 6$$

In the year 2017, the hospital still had requirement of 6 more doctors, so total number of occupied beds in 2017 = $6 \times 10 + 40 \times 10 = 460$

Percent of Unoccupied Beds = $(600 - 460)/600 \times 100 = 23.33\%$

Hence, option E is correct.

5.

From common explanation, we have

For each doctor according to the advisory there must be 5 nurses.

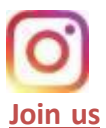
Total number of doctors in 2018 = 225

Total number of nurses = 1050

Number of nurses required = $5 \times 225 = 1125$

More number of nurses = $1125 - 1050 = 75$

Hence, option D is correct.



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