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Date Interpretation Info Chart Questions Quiz for IBPS PO Pre, SBI PO Pre, IBPS Clerk Mains, RRB Scale I Pre, IBPS SO Pre, Canara Bank, Syndicate Bank and SBI Clerk Mains Exams.

DI Info Chart Quiz 17

Directions: Study the given information carefully to answer the questions.

In an annual examination of 12th board consisting only three subjects, Physics, Chemistry and Mathematics 400 students appeared from a college.

400 students had passed in chemistry, 360 students had passed in physics, and 375 students had passed in mathematics. 80% of the total number of students had passed in all the three subjects. All those except 40 students, who had passed in mathematics also passed in physics and all those except 30 students, who had passed in physics also passed in chemistry. 85% of the total number of students who had passed in chemistry also passed in mathematics.

1. How many of students had passed only in chemistry?

- A. 20 B. 50 C. 60 D. 100 E. None of these

2. Find the sum of all the students who had passed in only two subjects?

- A. 55 B. 50 C. 45 D. 60 E. None of these

3. The number of students who had passed only in Mathematics is what percent of the number of students who had passed only in Physics and Chemistry?

- A. 200% B. 50% C. 150% D. 250% E. None of these

4. Find the ratio of the number of students who had passed in chemistry to the number of students who had passed in physics and mathematics both?

- A. 5 : 4.4 B. 80 : 67 C. 100 : 97 D. 5 : 4 E. None of these

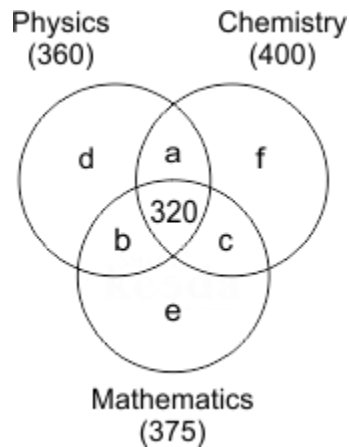
5. The number of students who had passed in all the three subjects is how many times of the sum of all the students who had passed in exactly two subjects?

- A. $7\frac{1}{9}$ times B. $8\frac{2}{9}$ times C. $7\frac{2}{9}$ times D. $7\frac{4}{9}$ times E. None of these

Correct Answers:

1	2	3	4	5
B	C	A	B	A

COMMON EXPLANATION:



$$b = 375 - 320 - 40 = 15 = \text{Passed only in Physics and Mathematics}$$

$$c = 85\% \text{ of } 400 - 320 = 340 - 320 = 20$$

$$a = 360 - 320 - 30 = 10$$

$$d = 360 - a - b - 320 = 360 - 10 - 15 - 320 = 15$$

$$f = 400 - a - c - 320 = 400 - 10 - 20 - 320 = 50$$

$$e = 375 - 320 - b - c = 375 - 320 - 15 - 20 = 20$$

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Explanations:

1. Following common explanation, we get
Students who had passed only in chemistry = $f = 50$
Hence, option B is correct.

2. Following common explanation, we get
 $b + c + a = 15 + 20 + 10 = 45$
Hence, option C is correct.

3. Following common explanation, we get
The number of students who had passed only in Mathematics = $e = 20$
the number of students who had passed only in Physics and Chemistry = $a = 10$

$$\text{Reqd. \%} = \frac{20 \times 100}{10} = 200\%$$

Hence, option A is correct.

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4. Following common explanation, we get
The required ratio = $400 : (15 + 320) = 400 : 335 = 80 : 67$
Hence, option B is correct.

5. Following common explanation, we get
The sum of all the students who had passed in exactly two subjects = $b + c + a = 15 + 20 + 10 = 45$
The number of students who had passed in all the three subjects = 320

$$\text{Reqd. answer} = \frac{320}{45} = \frac{64}{9} = 7\frac{1}{9} \text{ times}$$

Hence, option A is correct.

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