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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 22

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

In an examination, six subjects - A, B, C, D, E, and F have equal maximum marks. The number of marks scored by one particular candidate in subject A is 20% less than his marks in subject F. The ratio of marks scored by the same candidate in subject B to that in C is 4 : 5 and that in D to E is 3 : 4. The number of marks scored by this candidate in subject E is 25% more than that of F. He scored 65 marks in the subject C. He scored 436/9 % in the examination and the average of marks scored by him in all the subjects is 218/3.

1. What was the total marks in the examination?

- A. 600 B. 1200 C. 750 D. 900 E. None of these

2. What percentage of marks the candidate had scored in the subject E over the maximum marks of that subject?

- A. 33.33% B. 32% C. 100% D. 66.66% E. None of these

3. The number of marks obtained by the candidate in the subject B was how much less than in the subject D?

- A. 29 B. 23 C. 19 D. 27 E. None of these

4. What was the average of marks obtained by the candidate in the subject E and F together?

- A. 90 B. 80 C. 85 D. 100 E. None of these

5. The number of marks obtained by the candidate in the subject C was how much percentage less than that of subject E?

- A. 45% B. 40% C. 65% D. 35% E. None of these

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Correct Answers:

1	2	3	4	5
D	D	B	A	D

COMMON EXPLANATION :

Let the marks scored by the candidate in the subject F = 10x then

The marks scored by the candidate in the subject A = 80% of 10x = 8x

The ratio of marks scored in B to that in C is 4 : 5 and that D to E is 3 : 4. The number of marks scored by the candidate in E is 25% more than that of F

In E, the marks obtained = 125% of 10x = $\frac{25x}{2} = 4a$

Then, the marks obtained in D = $\frac{3 \times 25}{2 \times 4} = \frac{75x}{8}$

The marks obtained in C = 5y = 65

The marks obtained in B = 4y = $\frac{65 \times 4}{5} = 52$

According to the question,

$$A + B + C + D + E + F = \frac{218 \times 6}{3}$$

$$8x + 52 + 65 + \frac{75x}{8} + \frac{25x}{2} + 10x = 436$$

$$8x + \frac{75x}{8} + \frac{25x}{2} + 10x = 436 - 52 - 65 = 319$$

$$(64x + 75x + 100x + 80x) = 319 \times 8$$

$$x = 8$$

The total marks = z then $48\frac{4}{9}\%$ of z = 436

$$\text{By solving, } z = \frac{436 \times 900}{436} = 900$$



Explanations:

1. From the following common explanation, we get

The total marks = 900

Hence, option D is correct.

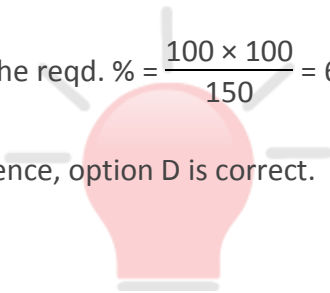
2. From the following common explanation, we get

The marks of each subject = $\frac{900}{6} = 150$

The marks obtained by the candidate in the subject E = $\frac{25x}{2} = 100$

The reqd. % = $\frac{100 \times 100}{150} = 66.66\%$

Hence, option D is correct.



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3. From the following common explanation, we get

The number of marks obtained by the candidate in the subject B = 52

The number of marks obtained by the candidate in the subject D = $\frac{75x}{8} = 75$

The required difference = $75 - 52 = 23$

Hence, option B is correct.

4. From the following common explanation, we get

The sum of the marks obtained by the candidate in the subject E and F together = $100 + 80$

The reqd. average = $\frac{180}{2} = 90$

Hence, option A is correct.

5. From the following common explanation, we get

The number of marks obtained by the candidate in the subject C = 65

The number of marks obtained by the candidate in the subject E = 100

$$\text{The reqd. \%} = \frac{(100 - 65) \times 100}{100} = 35\%$$

Hence, option D is correct.

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