

Quiz Date: 6th March 2020

Q1. Difference of the compound interest received in 1st year and 2nd year at 20% per annum at CI is Rs 1200 then find the sum?

- (a) Rs 25,000
- (b) Rs 36,000
- (c) Rs 35,000
- (d) Rs 24,000
- (e) Rs 30,000

Q2. Find the total distance covered by boat in each upstream and downstream in 7 hours if the speed of boat in still water and speed of current is 21 km/h and 3 km/h respectively?

- (a) 280 km
- (b) 294 km
- (c) 315 km
- (d) 301 km
- (e) 322 km

Q3. Ratio of income of A to that of B is 5:9. If expenditure of A is $\frac{3}{8}$ th of his income and expenditure of B is $\frac{4}{9}$ th of his income and sum of their saving is Rs 1950 then find the difference between their income?

- (a) Rs 900
- (b) Rs 1000
- (c) Rs 880
- (d) Rs 960
- (e) Rs 920

Q4. A alone can do a work in 12 days while A and B together can do that work in 7.5 days. Find the time taken by C alone to do that work if C takes 3 days more than that of B alone to do that work?

- (a) 33 days
- (b) 30 days
- (c) 23 days
- (d) 27 days
- (e) 28 days

Q5. Ratio of base and perpendicular side of a right-angled triangle is 3:4 and its base is equal to the side of a square having area 81 cm². Find the perimeter of the triangle?

- (a) 30 cm
- (b) 36 cm
- (c) 33 cm
- (d) 42 cm
- (e) 40 cm

Directions (6-10): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or no relation can be established between x and y .

Q6. I. $x^2 - 13x + 40 = 0$
II. $2y^2 - y - 15 = 0$

Q7. I. $5x^2 + 17x + 6 = 0$
II. $2y^2 + 11y + 12 = 0$

Q8. I. $7x^2 - 19x + 10 = 0$
II. $8y^2 + 2y - 3 = 0$

Q9. I. $x^2 - 8x + 15 = 0$
II. $y^2 - 3y + 2 = 0$

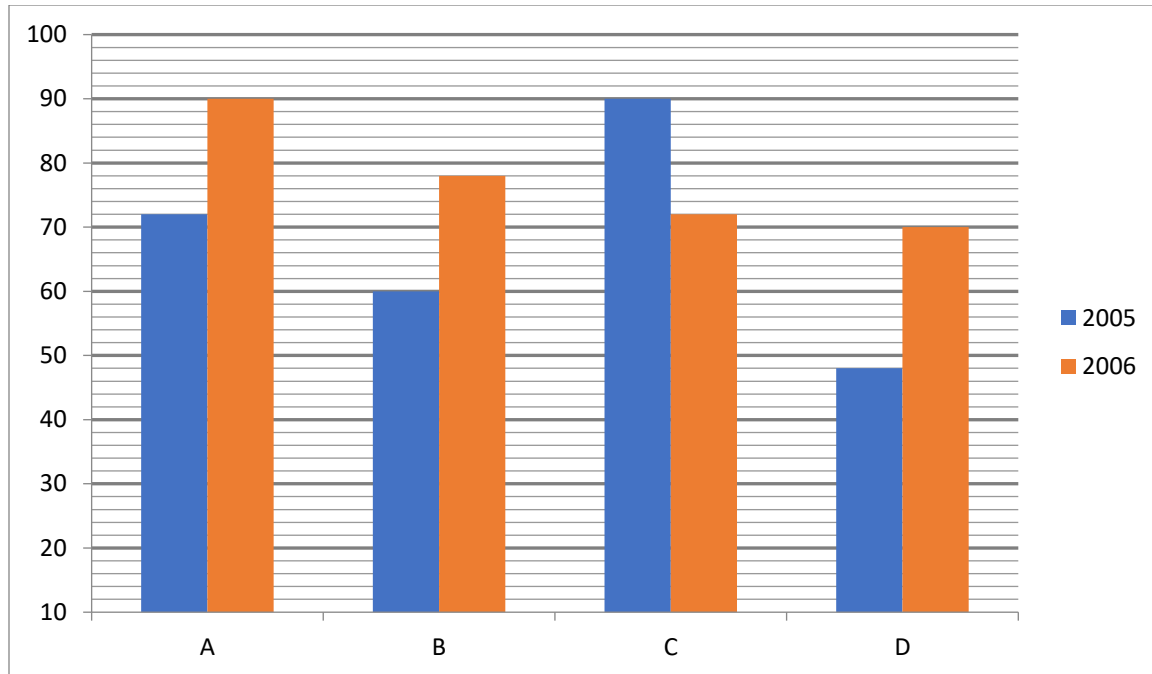
Q10. I. $3x^2 - 7x + 4 = 0$
II. $2y^2 - 9y + 10 = 0$



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PRELIMS**

85 TOTAL TESTS

Directions (11-15): Study the bar chart given below and answer the following questions. Bar chart shows the number of books read by 4 different persons (A, B, C & D) in 2005 and 2006.



Q11. Find average number of books read by A, C & D in 2005.

- (a) 64
- (b) 70
- (c) 75
- (d) 60
- (e) 56

Q12. Find ratio of books read by B & C together in 2005 to books read by A & D together in 2006.

- (a) 15 : 16
- (b) 5 : 6
- (c) 1 : 5
- (d) 4 : 7
- (e) 2 : 3

Q13. Books read by A & D together in 2005 are what percent more than books read by C in 2006?

- (a) $46\frac{2}{3}\%$
- (b) $54\frac{1}{3}\%$
- (c) $25\frac{2}{3}\%$
- (d) $33\frac{1}{3}\%$
- (e) $66\frac{2}{3}\%$

Q14. Books read by A & C together in 2005 are how much more or less than books read by B & D together in 2006?

- (a) 24
- (b) 14
- (c) 18
- (d) 22
- (e) 28

Q15. Books read by B & C together in 2006 are what percent of books read by B in 2005?

- (a) 100%
- (b) 120%
- (c) 250%
- (d) 200%
- (e) 160%

Solutions

S1. Ans.(e)

Sol.

Let the sum be Rs $100x$

CI in first year= Rs $20x$

CI in two years= 44% of $100x$ = Rs $44x$

CI in 2nd year= $44x - 20x$ = Rs $24x$

ATQ

$24x - 20x = 1200$

$x = 300$

Required sum=Rs 30,000

S2. Ans.(b)

Sol.

Speed in upstream=18 km/hr

Speed in downstream= 24 km/hr

Required total distance= $(24 + 18) \times 7 = 294 \text{ km}$

S3. Ans.(d)

Sol.

Let income of A and B be Rs $5x$ and Rs $9x$ respectively

Expenditure of A=Rs $\frac{15}{8}x$

Saving of A=Rs $\frac{25}{8}x$

Expenditure of B= Rs $4x$

Saving of B= Rs $5x$

ATQ

$$\frac{65}{8}x = 1950$$

$x = 240$

required difference= Rs 960

S4. Ans.(c)

Sol.

Let total work be 60 units (LCM of 12 and 7.5)

Efficiency of A= 5 units/ day

Efficiency of A and B together= 8 units/ day

Efficiency of B= 3 units/ day

Time taken by B alone to do that work=20 days

Time taken by C alone=23 days

S5. Ans.(b)

Sol.

Side of the square=9 cm

Perpendicular side of the triangle= 12 cm

Hypotenuse of the triangle= $\sqrt{81 + 144} = \sqrt{225} = 15 \text{ cm}$

Perimeter of the triangle= 36 cm



S6. Ans.(a)

Sol.

$$I. x^2 - 13x + 40 = 0$$

$$x^2 - 5x - 8x + 40 = 0$$

$$x(x - 5) - 8(x - 5) = 0$$

$$x = 5, 8$$

$$II. 2y^2 - y - 15 = 0$$

$$2y^2 - 6y + 5y - 15 = 0$$

$$2y(y - 3) + 5(y - 3) = 0$$

$$y = 3, -5/2$$

$$x > y$$

S7. Ans.(e)

Sol.

$$I. 5x^2 + 17x + 6 = 0$$

$$5x^2 + 15x + 2x + 6 = 0$$

$$5x(x+3) + 2(x+3) = 0$$

$$x = -3, -\frac{2}{5}$$

$$\text{II. } 2y^2 + 11y + 12 = 0$$

$$2y^2 + 8y + 3y + 12 = 0$$

$$2y(y+4) + 3(y+4) = 0$$

$$y = -4, -\frac{3}{2}$$

No relation

S8. Ans.(a)

Sol.

$$7x^2 - 19x + 10 = 0$$

$$7x^2 - 14x - 5x + 10 = 0$$

$$7x(x-2) - 5(x-2) = 0$$

$$x = 2, \frac{5}{7}$$

$$\text{II. } 8y^2 + 2y - 3 = 0$$

$$8y^2 + 6y - 4y - 3 = 0$$

$$2y(4y+3) - 1(4y+3) = 0$$

$$y = \frac{-3}{4}, \frac{1}{2}$$

$x > y$

S9. Ans.(a)

Sol.

$$\text{I. } x^2 - 8x + 15 = 0$$

$$\Rightarrow x^2 - 5x - 3x + 15 = 0$$

$$\Rightarrow x(x-5) - 3(x-5) = 0$$

$$\Rightarrow (x-3)(x-5) = 0$$

$$\therefore x = 3 \text{ or } 5$$

$$\text{II. } y^2 - 3y + 2 = 0$$

$$\Rightarrow y^2 - 2y - y + 2 = 0$$

$$\Rightarrow y(y-2) - 1(y-2) = 0$$

$$\Rightarrow (y-1)(y-2) = 0$$

$$\therefore y = 1 \text{ or } 2$$

$$\therefore x > y$$

S10. Ans.(c)

Sol.

$$\text{I. } 3x^2 - 7x + 4 = 0$$

$$\Rightarrow 3x^2 - 4x - 3x + 4 = 0$$

$$\Rightarrow (3x-4)(x-1) = 0$$

$$x = \frac{4}{3} \text{ or } 1$$

$$\text{II. } 2y^2 - 9y + 10 = 0$$

$$\Rightarrow 2y^2 - 4y - 5y + 10 = 0$$



$$\Rightarrow (2y - 5)(y - 2) = 0$$

$$\Rightarrow y = \frac{5}{2} \text{ or } 2$$

$$y > x$$

S11. Ans.(b)

$$\text{Sol. Required average} = \frac{72+90+48}{3}$$

$$= 70$$

S12. Ans.(a)

$$\text{Sol. Required ratio} = \frac{60+90}{90+70}$$

$$= \frac{150}{160}$$

$$= 15:16$$

S13. Ans.(e)

$$\text{Sol. Required \%} = \frac{\{(72+48)-72\}}{72} \times 100$$

$$= \frac{200}{3} \%$$

$$= 66\frac{2}{3} \%$$

S14. Ans.(b)

$$\text{Sol. Required difference} = (72 + 90) - (78 + 70)$$

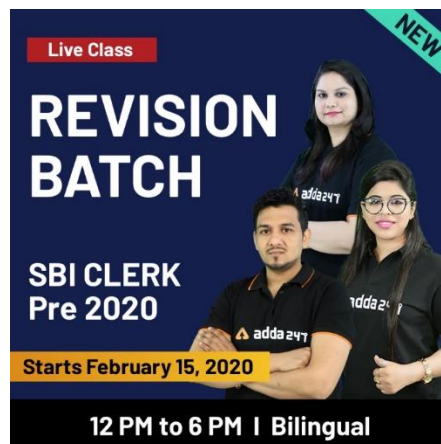
$$= 162 - 148$$

$$= 14$$

S15. Ans.(c)

$$\text{Sol. Required \%} = \frac{78+72}{60} \times 100$$

$$= \frac{150}{60} \times 100$$



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