**Quiz Date: 23rd May 2020**

Q1. Manish jogs 12 km at the speed of 6 km/h. At what speed should he travel during next $1\frac{1}{2}$ hours to have an average speed of 9 km/h for the entire journey?
(a) 10 km/h
(b) 11 km/h
(c) 12 km/h
(d) 13 km/h
(e) 14 km/h

Q2. Arjun & Sachin start from A & B towards each other with speed in ratio of 5:4 respectively. On way, they meet at X. find distance between A and B if Arjun travelled for 5 kms more.
(a) 20 km
(b) 25 km
(c) 35 km
(d) 41 km
(e) 45 km

Q3. A train crosses a pole and a bridge of length 450 meter in 12 seconds and 27 seconds respectively. Find the speed of the train.
(a) 90 kmph
(b) 108 kmph
(c) 72 kmph
(d) 135 kmph
(e) 120 kmph

Q4. A person can row $7\frac{1}{2}$ km an hour in still water. He finds that it takes twice the time to row upstream than the time to row downstream. The speed of the stream is
(a) 2 km/hour
(b) 2.5 km/hour
(c) 3 km/hour
(d) 4 km/hour
(e) 3.5 km/hour

Q5. From a pack of 52 playing cards, three cards are drawn at random. Find the probability of drawing a king, a queen and a jack.
(a) $\frac{64}{1105}$
(b) $\frac{11}{1105}$
(c) $\frac{14}{5525}$
(d) $\frac{16}{5525}$

(e) $\frac{32}{5525}$

Q6. Vikas can do a piece of work in 40 days. Kunal is 20% less efficient than Vikas. Find in how much time work will be completed, if they work together.

(a) $12\frac{2}{9}\ days$

(b) $21\frac{1}{9}\ days$

(c) $22\frac{2}{9}\ days$

(d) $12\frac{1}{9}days$

(e) $22\frac{1}{9}\ days$



Q7. A and B starts a business with an investment of Rs 35000 and Rs 42000 respectively. After 4 months, A invests 20% more while B withdraws 20% of their initial investment. If at the end of the year difference between their profit is Rs 1960, then find profit share of A.
(a) Rs 21840
(b) Rs 27480
(c) Rs 23800
(d) Rs 28300
(e) Rs 45640

Q8. Sanjay and Deepak invest in the ratio of 5 : 4. After 6 months, Praveen also invest equal to investment of Deepak. If at the end of the year total profit is Rs 2420, then find the total profit of Deepak and Praveen together.
(a) Rs 1320
(b) Rs 1580
(c) Rs 1760
(d) Rs 1110
(e) None of these

Q9. Amit gives 40% of his monthly salary to his father. 50% of his remaining salary, he invests in share market and insurance in the ratio of 5 : 3. If the difference between the amount he gave to his father and the amount he spent on share market is Rs 6800. Find monthly income of Amit.
(a) Rs 64000
(b) Rs 56000

(c) Rs 68000
(d) Rs 48000
(e) Rs 32000

Q10. A father's age is four times as much as the sum of the ages of his three children but 6 years hence his age will be only double the sum of their ages. Find the present age of the father.
(a) 30 years
(b) 40 years
(c) 60 years
(d) 45 years
(e) 55 years

Q11. Two numbers are such that if the first is subtracted from six times the second, their difference becomes 71, and if the second be added to 7 times the first, their sum becomes 62. The two numbers are:
(a) 19, 7
(b) 15, 7
(c) 7, 13
(d) 17, 3
(e) 13, 5

Q12. A shopkeeper sold an article for Rs 750 after giving 20% discount on the labeled price an made 40% profit on the cost price. What would have been the percentage profit, had he not given the discount?(approx)
(a) 77%
(b) 85%
(c) 60%
(d) 70%
(e) 75%

Q13. Shopkeeper gave an additional 20 per cent concession on the reduced price after giving 30 per cent standard concession on an article. If Arun bought that article for Rs 1120, what was the original price?
(a) Rs 3000
(b) Rs 4000
(c) Rs 2400
(d) Rs 2000
(e) Rs 4300

Q14. Twenty-five men are employed to do a piece of work in 24 days. After 15 days, 10 more men are engaged and the work was finished a day earlier than actually planned. In what time could they finish the work if extra men were not employed?
(a) 29.5 days
(b) 24.6 days

(c) 26.2 days
(d) 21.7 days
(e) None of these

Q15. The perimeter of a rectangle is 160 m and the difference of two adjacent sides is 48 m. Find the side of a square whose area is equal to the area of the rectangle.
(a) 32 m
(b) 8 m
(c) 4 m
(d) 16 m
(e) 64 m
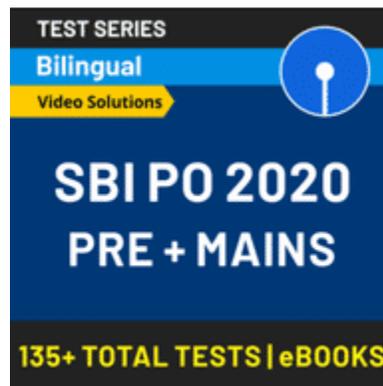
**Solutions**

S1. Ans. (d)
Sol.
ATQ
$$9 = \frac{12 + x \times \frac{3}{2}}{2 + \frac{3}{2}}$$
$x = 13$ km/h

S2. Ans. (e)
Sol.     ratio of speed = 5:4
Ratio of distance covered = 5:4
Difference in distance covered = 5 – 4 = 1 ratio
1 ratio = 5 km
Total distance between A & B = 9 ratio
= 9 X 5 = 45 km

S3. Ans (b)
Sol.
Let length and speed of the train be L meter and S m/s respectively.
ATQ
$L = 12S \ldots\ldots.. (i)$
And, $450 + L = 27S$

$L = 27S - 450 \ldots \ldots \ldots (ii)$
From (i) and (ii)
$15S = 450$
$S = 30$
$\therefore \quad S = 30 \times \frac{18}{5} = 108 \, kmph$

S4. Ans. (b)
Sol.
Let D be the distance
$\frac{2D}{7.5+x} = \frac{D}{7.5-x}$
or, $15 - 2x = 7.5 + x$
or, $x = 2.5$ km/hr

S5. Ans.(d)
Sol. Required probability $= \frac{^4C_1 \times ^4C_1 \times ^4C_1}{^{52}C_3} = \frac{64}{22100} = \frac{16}{5525}$

S6. Ans (c)
Sol. Time taken by Kunal to complete the work alone $= 40 \times \frac{100}{80} = 50 \, days$
So, Required time $= \frac{1}{\left[\frac{1}{40}+\frac{1}{50}\right]} = \frac{200}{9} \, days = 22\frac{2}{9} \, days$

S7. Ans (c)
Sol. Ratio of profit share of A and B

| A | : | B |
|---|---|---|
| $35000 \times 4 + 35000 \times 1.2 \times 8$ | | $42000 \times 4 + 42000 \times 0.8 \times 8$ |
| 476000 | | 436800 |
| 85 | | 78 |

Let profit of A and B are Rs 85x and Rs 78x respectively.
ATQ
$85x - 78x = 1960$
$x = 280$
So, required profit $= 85x = Rs \, 23800$

S8. Ans (a)
Sol. Ratio of profit share of Sanjay : Deepak : Praveen
$\Rightarrow \quad 5x \times 12 : 4x \times 12 : 4x \times 6$
$\Rightarrow \quad 5 \quad : \quad 4 \quad : \quad 2$
Let profit of Sanjay, Deepak and Praveen be Rs 5a, 4a and 2a respectively.
So, $11a = 2420$
$\therefore required \, profit = 6a = Rs \, 1320$

S9. Ans (e)
Sol. let monthly income of Amit is Rs 100x.
ATQ

$100x \times \frac{40}{100} - 100x \times \frac{60}{100} \times \frac{50}{100} \times \frac{5}{8} = 6800$

$40x - 30x \times \frac{5}{8} = 6800$

$160x - 75x = 6800 \times 4$

$85x = 6800 \times 4$

$x = 320$
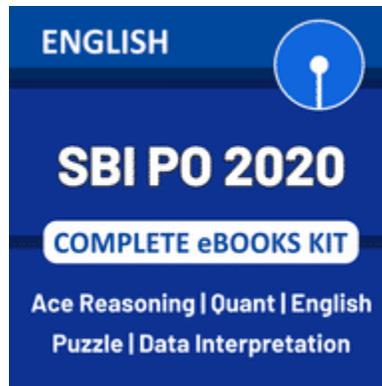
So, required income $= 100x = Rs\ 32000$

S10. Ans.(c)
Sol. $F = 4(C_1 + C_2 + C_3)$
$F + 6 = 2(C_1 + C_2 + C_3 + 18)$
$4(C_1 + C_2 + C_3) = 2(C_1 + C_2 + C_3) + 30$
$C_1 + C_2 + C_3 = 15$
$F = 4 \times 15 = 60$ years

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S11. Ans (c)
Sol.
Let the number be x and y
Then 6y – x = 71 and 7x + y = 62
Solving the equation
x = 7 , y = 13

S12. Ans (e)
Sol.
  CP        SP       Marked Price
535.71     750         937.5
Profit % without discount $= \frac{937.5 - 535.71}{535.71} \times 100$
$\approx 75\%$

S13. Ans (d)
Sol.  Let the original price is P
$P \times \frac{70}{100} \times \frac{80}{100} = 1120$
P = 2000

S14. Ans.(c)
Sol. let total work done be x units

$\frac{15 \times 25}{x} + \frac{8 \times 35}{x} = 1$, x=655 units

∴ Required days $= \frac{655}{25} = 26.2$ days

S15. Ans. (a)
Sol. Let, length = x $m$
breadth = y $m$
x + y = $\frac{160}{2}$
x + y = 80                ... (a)
and  x - y = 48          ... (b)
From (a) and (b)
x = $\frac{128}{2}$ = 64 $m$
and y = 16 $m$
 Area of square = Area of rectangle
(edge)$^2$ = 16 × 64
Edge = 4 × 8
Edge of square = 32 m

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