

# Book For State Bank Of India



## SBI Assistant Aptitude Sample Paper



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(1) The banker's gain of a certain sum due 2 years hence at 10% per annum is Rs. 24. The present worth is:

- [A] Rs. 480
- [B] Rs. 520
- [C] Rs. 600
- [D] Rs. 960

Answer : [C]

Explanation:

$$T.D. = \left( \frac{B.G. \times 100}{Rate \times Time} \right) = Rs. \left( \frac{24 \times 100}{10 \times 2} \right) = Rs. 120.$$

$$\therefore P.W. = \frac{100 \times T.D.}{Rate \times Time} = Rs. \left( \frac{100 \times 120}{10 \times 2} \right) = Rs. 600.$$

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(2) The banker's discount on Rs. 1600 at 15% per annum is the same as true discount on Rs. 1680 for the same time and at the same rate. The time is:

- [A] 3 months
- [B] 4 months
- [C] 6 months
- [D] 8 months

Answer : [B]

Explanation:

S.I. on Rs. 1600 = T.D. on Rs. 1680.

$\therefore$  Rs. 1600 is the P.W. of Rs. 1680, i.e., Rs. 80 is on Rs. 1600 at 15%.

$$\therefore Time = \left( \frac{100 \times 80}{1600 \times 15} \right)_{year} = \frac{1}{3} \text{ year} = 4 \text{ months.}$$

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(3) The banker's discount of a certain sum of money is Rs. 72 and the true discount on the same sum for the same time is Rs. 60. The sum due is:

- [A] Rs. 360
- [B] Rs. 432
- [C] Rs. 540
- [D] Rs. 1080

Answer : [A]

Explanation:

$$Sum = \frac{B.D. \times T.D.}{B.D. - T.D.} = Rs. \left( \frac{72 \times 60}{72 - 60} \right) = Rs. \left( \frac{72 \times 60}{12} \right) = Rs. 360.$$

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(4) The banker's gain on a bill due 1 year hence at 12% per annum is Rs. 6. The true discount is:

- [A] Rs. 72

[B] Rs. 36

[C] Rs. 54

[D] Rs. 50

**Answer : [D]****Explanation:**

$$T.D. = \frac{B.G. \times 100}{R \times T} = Rs. \left( \frac{6 \times 100}{12 \times 1} \right) = Rs. 50.$$

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**(5) The true discount on a bill of Rs. 540 is Rs. 90. The banker's discount is:**

[A] Rs. 60

[B] Rs. 108

[C] Rs. 110

[D] Rs. 112

**Answer : [B]****Explanation:**

$$P.W. = Rs. (540 - 90) = Rs. 450.$$

$$\therefore \text{S.I. on Rs. 450} = Rs. 90.$$

$$\text{S.I. on Rs. 540} = Rs. \left( \frac{90}{450} \times 540 \right) = Rs. 108.$$

$$\therefore \text{B.D.} = Rs. 108.$$

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**(6) If  $a - b = 3$  and  $a^2 + b^2 = 29$ , find the value of  $ab$ .**

[A] 10

[B] 12

[C] 15

[D] 18

**Answer : [A]****Explanation:**

$$\begin{aligned} 2ab &= (a^2 + b^2) - (a - b)^2 \\ &= 29 - 9 = 20 \\ \Rightarrow ab &= 10. \end{aligned}$$

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**(7) The price of 2 sarees and 4 shirts is Rs. 1600. With the same money one can buy 1 saree and 6 shirts. If one wants to buy 12 shirts, how much shall he have to pay ?**

[A] Rs. 1200

[B] Rs. 2400

[C] Rs. 4800

[D] Cannot be determined

[E] None of these

**Answer : [B]**

**Explanation:**

Let the price of a saree and a shirt be Rs.  $x$  and Rs.  $y$  respectively.

Then,  $2x + 4y = 1600$  .... (i)

and  $x + 6y = 1600$  .... (ii)

Solving (i) and (ii) we get  $x = 400$ ,  $y = 200$ .

$\therefore$  Cost of 12 shirts = Rs.  $(12 \times 200) = \text{Rs. } 2400$ .

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**(8) A fires 5 shots to B's 3 but A kills only once in 3 shots while B kills once in 2 shots. When B has missed 27 times, A has killed:**

[A] 30 birds

[B] 60 birds

[C] 72 birds

[D] 90 birds

**Answer : [A]**

**Explanation:**

Let the total number of shots be  $x$ . Then,

Shots fired by A =  $\frac{5}{8}x$

Shots fired by B =  $\frac{3}{8}x$

Killing shots by A =  $\frac{1}{3}$  of  $\frac{5}{8}x = \frac{5}{24}x$

Shots missed by B =  $\frac{1}{2}$  of  $\frac{3}{8}x = \frac{3}{16}x$

$\therefore \frac{3x}{16} = 27$  or  $x = \left(\frac{27 \times 16}{3}\right) = 144$ .

Birds killed by A =  $\frac{5x}{24} = \left(\frac{5}{24} \times 144\right) = 30$ .

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**(9) One-third of Rahul's savings in National Savings Certificate is equal to one-half of his savings in Public Provident Fund. If he has Rs. 1,50,000 as total savings, how much has he saved in Public Provident Fund ?**

[A] Rs. 30,000

[B] Rs. 50,000

[C] Rs. 60,000

[D] Rs. 90,000

**Answer : [C]**

**Explanation:**

Let savings in N.S.C and P.P.F. be Rs.  $x$  and Rs.  $(150000 - x)$  respectively. Then,

$\frac{1}{3}x = \frac{1}{2}(150000 - x)$

$\Rightarrow \frac{x}{3} + \frac{x}{2} = 75000$

$$\Rightarrow \frac{5x}{6} = 75000$$

$$\Rightarrow x = \frac{75000 \times 6}{5} = 90000$$

∴ Savings in Public Provident Fund = Rs. (150000 - 90000) = Rs. 60000

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**(10)**

$$\frac{(469 + 174)^2 - (469 - 174)^2}{(469 \times 174)} = ?$$

[A] 2

[B] 4

[C] 295

[D] 643

**Answer : [B]**

**Explanation:**

$$\text{Given exp.} = \frac{(a + b)^2 - (a - b)^2}{ab}$$

$$= \frac{4ab}{ab}$$

$$= 4 \text{ (where } a = 469, b = 174.)$$

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**(11) The difference between a two-digit number and the number obtained by interchanging the positions of its digits is 36. What is the difference between the two digits of that number?**

[A] 3

[B] 4

[C] 9

[D] Cannot be determined

[E] None of these

**Answer : [B]**

**Explanation:**

Let the ten's digit be  $x$  and unit's digit be  $y$ .

$$\text{Then, } (10x + y) - (10y + x) = 36$$

$$\Rightarrow 9(x - y) = 36$$

$$\Rightarrow x - y = 4.$$

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**(12) If one-third of one-fourth of a number is 15, then three-tenth of that number is:**

[A] 35

[B] 36

[C] 45

[D] 54

**Answer : [D]**

**Explanation:**

Let the number be  $x$ .

Then,  $\frac{1}{3}$  of  $\frac{1}{4}$  of  $x = 15 \Leftrightarrow x = 15 \times 12 = 180$ .

So, required number =  $\left(\frac{3}{10} \times 180\right) = 54$ .

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**(13) The sum of the digits of a two-digit number is 15 and the difference between the digits is 3. What is the two-digit number?**

[A] 69

[B] 78

[C] 96

[D] Cannot be determined

[E] None of these

**Answer : [D]**

**Explanation:**

Let the ten's digit be  $x$  and unit's digit be  $y$ .

Then,  $x + y = 15$  and  $x - y = 3$  or  $y - x = 3$ .

Solving  $x + y = 15$  and  $x - y = 3$ , we get:  $x = 9, y = 6$ .

Solving  $x + y = 15$  and  $y - x = 3$ , we get:  $x = 6, y = 9$ .

So, the number is either 96 or 69.

Hence, the number cannot be determined.

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**(14) Find a positive number which when increased by 17 is equal to 60 times the reciprocal of the number.**

[A] 3

[B] 10

[C] 17

[D] 20

**Answer : [A]**

**Explanation:**

Let the number be  $x$ .

Then,  $x + 17 = \frac{60}{x}$

$\Rightarrow x^2 + 17x - 60 = 0$

$\Rightarrow (x + 20)(x - 3) = 0$

$\Rightarrow x = 3$ .

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**(15) The product of two numbers is 9375 and the quotient, when the larger one is divided by the smaller, is 15. The sum of the numbers is:**

[A] 380

[B] 395

[C] 400

[D] 425

**Answer : [C]****Explanation:**Let the numbers be  $x$  and  $y$ .Then,  $xy = 9375$  and  $\frac{x}{y} = 15$ .

$$\frac{xy}{(x/y)} = \frac{9375}{15}$$

$$\Rightarrow y^2 = 625.$$

$$\Rightarrow y = 25.$$

$$\Rightarrow x = 15y = (15 \times 25) = 375.$$

$$\therefore \text{Sum of the numbers} = x + y = 375 + 25 = 400.$$

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**(16) Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:**

[A] 2 : 5

[B] 3 : 5

[C] 4 : 5

[D] 6 : 7

**Answer : [C]****Explanation:**Let the third number be  $x$ .

$$\text{Then, first number} = 120\% \text{ of } x = \frac{120x}{100} = \frac{6x}{5}$$

$$\text{Second number} = 150\% \text{ of } x = \frac{150x}{100} = \frac{3x}{2}$$

$$\therefore \text{Ratio of first two numbers} = \left( \frac{6x}{5} : \frac{3x}{2} \right) = 12x : 15x = 4 : 5.$$

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**(17) If  $0.75 : x :: 5 : 8$ , then  $x$  is equal to:**

[A] 1.12

[B] 1.2

[C] 1.25

[D] 1.30

**Answer : [B]****Explanation:**

$$(x \times 5) = (0.75 \times 8) \Rightarrow x = \left( \frac{6}{5} \right) = 1.20$$

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**(18) If Rs. 782 be divided into three parts, proportional to  $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$ , then the first part is:**

[A] Rs. 182

[B] Rs. 190

[C] Rs. 196

[D] Rs. 204

**Answer : [D]****Explanation:**Given ratio =  $\frac{1}{2} : \frac{2}{3} : \frac{3}{4} = 6 : 8 : 9$ . $\therefore$  1<sup>st</sup> part = Rs.  $\left(782 \times \frac{6}{23}\right) = \text{Rs. } 204$ 

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**(19) Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:**

[A] 27

[B] 33

[C] 49

[D] 55

**Answer : [B]****Explanation:**Let the numbers be  $3x$  and  $5x$ .Then,  $\frac{3x - 9}{5x - 9} = \frac{12}{23}$ 

$$\Rightarrow 23(3x - 9) = 12(5x - 9)$$

$$\Rightarrow 9x = 99$$

$$\Rightarrow x = 11.$$

 $\therefore$  The smaller number =  $(3 \times 11) = 33$ .

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**(20) The fourth proportional to 5, 8, 15 is:**

[A] 18

[B] 24

[C] 19

[D] 20

**Answer : [B]****Explanation:**Let the fourth proportional to 5, 8, 15 be  $x$ .Then,  $5 : 8 : 15 : x$ 

$$\Rightarrow 5x = (8 \times 15)$$

$$x = \frac{(8 \times 15)}{5} = 24.$$

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