Book For Syndicate Bank



Syndicate Bank PO Aptitude Sample Paper



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(1) A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?

- [A] Rs. 375
- [B] Rs. 400
- [C] Rs. 600
- [D] Rs. 800

Answer: [B]

Explanation:

C's 1 day's work =
$$\frac{1}{3} - \left(\frac{1}{6} + \frac{1}{8}\right) = \frac{1}{3} - \frac{7}{24} = \frac{1}{24}$$
.

A's wages : B's wages : C's wages =
$$\frac{1}{6} : \frac{1}{8} : \frac{1}{24} = 4 : 3 : 1$$
.

$$\therefore$$
 C's share (for 3 days) = Rs. $\left(3 \times \frac{1}{24} \times 3200\right)$ = Rs. 400.

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(2) 10 women can complete a work in 7 days and 10 children take 14 days to complete the work. How many days will 5 women and 10 children take to complete the work?

- [A] 3
- [B] 5
- [C] 7
- [D] Cannot be determined
- [E] None of these

Answer: [C]

Explanation:

1 woman's 1 day's work =
$$\frac{1}{70}$$

1 child's 1 day's work =
$$\frac{1}{140}$$

(5 women + 10 children)'s day's work =
$$\left(\frac{5}{70} + \frac{10}{140}\right) = \left(\frac{1}{14} + \frac{1}{14}\right) = \frac{1}{7}$$

5 women and 10 children will complete the work in 7 days.

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(3) A works twice as fast as B. If B can complete a work in 12 days independently, the number of days in which A and B can together finish the work in :

- [A] 4 days
- [B] 6 days
- [C] 8 days

[D] 18 days

Answer: [A]

Explanation:

Ratio of rates of working of A and B = 2:1.

So, ratio of times taken = 1:2.

B's 1 day's work =
$$\frac{1}{12}$$
.

$$\therefore$$
 A's 1 day's work = $\frac{1}{6}$; (2 times of B's work)

(A + B)'s 1 day's work =
$$\left(\frac{1}{6} + \frac{1}{12}\right) = \frac{3}{12} = \frac{1}{4}$$
.

So, A and B together can finish the work in 4 days.

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- (4) Twenty women can do a work in sixteen days. Sixteen men can complete the same work in fifteen days. What is the ratio between the capacity of a man and a woman?
- [A] 3:4
- [B] 4:3
- [C] 5:3
- [D] Data inadequate

Answer: [B]

Explanation:

(20 x 16) women can complete the work in 1 day.

$$1 \text{ woman's } 1 \text{ day's work} = \frac{1}{320}$$

(16 x 15) men can complete the work in 1 day.

$$1 \text{ man's 1 day's work} = \frac{1}{240}$$

So, required ratio =
$$\frac{1}{240}$$
 : $\frac{1}{320}$

$$=\frac{1}{3}:\frac{1}{4}$$

= 4 : 3 (cross multiplied)

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(5) A and B can do a job together in 7 days. A is $1\frac{3}{4}$ times as efficient as B. The same job can be done by A alone in:

[A]

$$9\frac{1}{3}$$
 days

- [B] 11 days
- [C]
- $12\frac{1}{4}$ days
- [D]
- $16\frac{1}{3}$ days

Answer: [B]

Explanation:

(A's 1 day's work) : (B's 1 day's work) =
$$\frac{7}{4}$$
 : 1 = 7 : 4.

Let A's and B's 1 day's work be 7x and 4x respectively.

Then,
$$7x + 4x = \frac{1}{7}$$
 \Rightarrow $11x = \frac{1}{7}$ \Rightarrow $x = \frac{1}{77}$.

$$\therefore$$
 A's 1 day's work = $\left(\frac{1}{77} \times 7\right) = \frac{1}{11}$.

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(6) What is the difference between the compound interests on Rs. 5000 for $1\frac{1}{2}$ years at 4% per annum compounded yearly and half-yearly?

- [A] Rs. 2.04
- [B] Rs. 3.06
- [C] Rs. 4.80
- [D] Rs. 8.30

Answer: [A]

Explanation:

C.I. when interest compounded yearly = Rs.
$$\left[5000 \times \left(1 + \frac{4}{100} \right) \times \left(1 + \frac{\frac{1}{2} \times 4}{100} \right) \right]$$
= Rs.
$$\left[5000 \times \frac{26}{25} \times \frac{51}{50} \right]$$
= Rs. 5304.

C.I. when interest is compounded half-yearly = Rs.
$$\left[5000 \times \left(1 + \frac{2}{100}\right)^3\right]$$
= Rs.
$$\left[5000 \times \frac{51}{50} \times \frac{51}{50} \times \frac{51}{50}\right]$$
= Rs. 5306.04

$$\therefore$$
 Difference = Rs. (5306.04 - 5304) = Rs. 2.04

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(7) There is 60% increase in an amount in 6 years at simple interest. What will be the compound interest of Rs. 12,000 after 3 years at the same rate?

- [A] Rs. 2160
- [B] Rs. 3120
- [C] Rs. 3972
- [D] Rs. 6240
- [E] None of these

Answer: [C]

Explanation:

Let P = Rs. 100. Then, S.I. Rs. 60 and T = 6 years.

$$R = \left(\frac{100 \times 60}{100 \times 6}\right) = 10\% \text{ p.a.}$$

Now, P = Rs. 12000. T = 3 years and R = 10% p.a.

$$\therefore \text{ C.I.} = \text{Rs.} \left[12000 \times \left\{ \left(1 + \frac{10}{100} \right)^3 - 1 \right\} \right]$$

$$= \text{Rs.} \left(12000 \times \frac{331}{1000} \right)$$

$$= 3972.$$

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(8) The effective annual rate of interest corresponding to a nominal rate of 6% per annum payable half-yearly is:

- [A] 6.06%
- [B] 6.07%
- [C] 6.08%
- [D] 6.09%

Answer: [D]

Explanation:

Amount of Rs. 100 for 1 year when compounded half-yearly
$$= Rs. \left[100 \times \left(1 + \frac{3}{100} \right)^2 \right] = Rs. 106.09$$

 \therefore Effective rate = (106.09 - 100)% = 6.09%

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(9) The difference between simple interest and compound on Rs. 1200 for one year at 10% per annum reckoned half-yearly is:

- [A] Rs. 2.50
- [B] Rs. 3
- [C] Rs. 3.75
- [D] Rs. 4
- [E] None of these

Answer: [B]

Explanation:

S.I. = Rs
$$\left(\frac{1200 \times 10 \times 1}{100}\right)$$
 = Rs. 120.

C.I. = Rs.
$$\left[1200 \times \left(1 + \frac{5}{100} \right)^2 - 1200 \right]$$
 = Rs. 123.

 \therefore Difference = Rs. (123 - 120) = Rs. 3.

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(10) The difference between compound interest and simple interest on an amount of Rs. 15,000 for 2 years is Rs. 96. What is the rate of interest per annum?

- [A] 8
- [B] 10
- [C] 12
- [D] Cannot be determined

[E] None of these

Answer: [A]

Explanation:

$$15000 \times \left(1 + \frac{R}{100}\right)^2 - 15000 - \left(\frac{15000 \times R \times 2}{100}\right) = 96$$

$$\Rightarrow 15000 \left[\left(1 + \frac{R}{100} \right)^2 - 1 - \frac{2R}{100} \right] = 96$$

$$\Rightarrow 15000 \left[\frac{(100 + R)^2 - 10000 - (200 \times R)}{10000} \right] = 96$$

$$\Rightarrow R^2 = \left(\frac{96 \times 2}{3}\right) = 64$$

$$\Rightarrow R = 8$$

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(11) A and B together have Rs. 1210. If $\frac{4}{15}$ of A's amount is equal to $\frac{2}{5}$ of B's amount, how much amount does B have?

- [A] Rs. 460
- [B] Rs. 484
- [C] Rs. 550
- [D] Rs. 664

Answer: [B]

Explanation:
$$\frac{4}{15} A = \frac{2}{5} B$$

$$\Rightarrow A = \left(\frac{2}{5} \times \frac{15}{4}\right)_{B}$$

$$\Rightarrow A = \frac{3}{2} B$$

$$\Rightarrow \frac{A}{B} = \frac{3}{2}$$

$$\Rightarrow$$
 A · B = 3 · 2

∴ B's share = Rs.
$$\left(1210 \times \frac{2}{5}\right)$$
 = Rs. 484.

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(12) In a mixture 60 litres, the ratio of milk and water 2:1. If the this ratio is to be 1:2, then the quanity of water to be further added is:

- [A] 20 litres
- [B] 30 litres
- [C] 40 litres
- [D] 60 litres

Answer: [D]

Explanation:

Quantity of milk =
$$\left(60 \times \frac{2}{3}\right)$$
 litres = 40 litres.

 $[\]Rightarrow R = 8.$ $\therefore Rate = 8\%.$

Quantity of water in it = (60-40) litres = 20 litres.

New ratio = 1:2

Let quantity of water to be added further be x litres.

Then, milk: water =
$$\left(\frac{40}{20+x}\right)$$
.

Now,
$$\left(\frac{40}{20+x}\right) = \frac{1}{2}$$

$$\Rightarrow$$
 20 + $x = 80$

$$\Rightarrow x = 60.$$

 \therefore Quantity of water to be added = 60 litres.

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(13) The sum of three numbers is 98. If the ratio of the first to second is 2:3 and that of the second to the third is 5:8, then the second number is:

- [A] 20
- [B] 30
- [C] 48
- [D] 58

Answer: [B]

Explanation:

Let the three parts be A, B, C. Then,
A: B = 2: 3 and B: C = 5: 8 =
$$\left(5 \times \frac{3}{5}\right)$$
: $\left(8 \times \frac{3}{5}\right)$ = 3: $\frac{24}{5}$

$$\Rightarrow$$
 A:B:C = 2:3: $\frac{24}{5}$ = 10:15:24

$$\Rightarrow B = \left(98 \times \frac{15}{49}\right) = 30.$$

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(14) 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 =
$$\frac{1}{2} : \frac{2}{3} : \frac{3}{4} = 6 : 8 : 9$$
.
 $\therefore 1^{st} \text{ part} = \text{Rs.} \left(782 \times \frac{6}{23} \right) = \text{Rs. } 204$

: 1st part = Rs.
$$\left(782 \times \frac{6}{23}\right)$$
 = Rs. 204

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

- [A] 18
- [B] 24

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[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 x 15)

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

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(16) Six bells commence tolling together and toll at intervals of 2, 4, 6, 8 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

[A] 4

[B] 10

[C] 15

[D] 16

Answer: [D]

Explanation:

L.C.M. of 2, 4, 6, 8, 10, 12 is 120.

So, the bells will toll together after every 120 seconds(2 minutes).

In 30 minutes, they will toll together $\frac{30}{2} + 1 = 16$ times.

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(17)

Reduce $\frac{128352}{238368}$ to its lowest terms.

[A]

4

[B.

IC.

7 7

[D]

9

Answer: [C]

Explanation:

128352) 238368 (1

128352

----- 110016) 128352 (1

110016

916

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(18) The ratio of two numbers is 3:4 and their H.C.F. is 4. Their L.C.M. is:

[A] 12

[B] 16

[C] 24

[D] 48

Answer: [D]

Explanation:

Let the numbers be 3x and 4x. Then, their H.C.F. = x. So, x = 4.

So, the numbers 12 and 16.

L.C.M. of 12 and 16 = 48.

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(19) The least number, which when divided by 12, 15, 20 and 54 leaves in each case a remainder of 8 is:

[A] 504

[B] 536

[C] 544

[D] 548

Answer: [D]

Explanation:

Required number = (L.C.M. of 12, 15, 20, 54) + 8= 540 + 8

= 548.

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(20) The L.C.M. of two numbers is 48. The numbers are in the ratio 2: 3. Then sum of the number is:

[A] 28

[B] 32

[C] 40

[D] 64

Answer: [C]

Explanation:

Let the numbers be 2x and 3x.

Then, their L.C.M. = 6x.

So, 6x = 48 or x = 8.

The numbers are 16 and 24.

Hence, required sum = (16 + 24) = 40.

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