Book For

Bank of Baroda

BOB Peon Aptitude Sample Paper

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(1) 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.
∴ Rs. 1600 is the P.W. of Rs. 1680, *i.e.,* Rs. 80 is on Rs. 1600 at 15%.
∴ Time = $\left(\frac{100 \times 80}{1600 \times 15}\right)_{year} = \frac{1}{3}$ year = 4 months.

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(2) The banker's discount on a bill due 4 months hence at 15% is Rs. 420. The true discount is:

[A] Rs. 400

[B] Rs. 360

[C] Rs. 480

[D] Rs. 320

Answer : [A]

Explanation:
$$\text{T.D.} = \frac{\text{B.D.} \times 100}{100 + (\text{R} \times \text{T})}$$

$$= \text{Rs.} \left[\frac{420 \times 100}{100 + \left(15 \times \frac{1}{3}\right)}\right]$$

$$= \text{Rs.} \left(\frac{420 \times 100}{105}\right)$$

= Rs. 400.

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(3) The banker's gain on a sum due 3 years hence at 12% per annum is Rs. 270. The banker's discount is:

[A] Rs. 960

[B] Rs. 840

[C] Rs. 1020

[D] Rs. 760

Answer : [C]

Explanation:
$$\text{T.D.} = \left(\frac{\text{B.G.} \times 100}{\text{R} \times \text{T}}\right) = \text{Rs.} \left(\frac{270 \times 100}{12 \times 3}\right) = \text{Rs. } 750.$$

∴ B.D. = Rs.(750 + 270) = Rs. 1020.

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(4) 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:

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

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(5) 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:

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

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(6) Which of the following statements is not correct?

[A] $\log_{10} 10 = 1$

[B] $\log (2 + 3) = \log (2 \times 3)$

[C] $\log_{10} 1 = 0$

[D] $\log (1 + 2 + 3) = \log 1 + \log 2 + \log 3$

Answer : [B]

Explanation:

(a) Since $\log_a a = 1$, so $\log_{10} 10 = 1$.

(b) $\log (2 + 3) = \log 5$ and $\log (2 \times 3) = \log 6 = \log 2 + \log 3$

$\therefore \log (2 + 3) \neq \log (2 \times 3)$

(c) Since $\log_a 1 = 0$, so $\log_{10} 1 = 0$.

(d) $\log (1 + 2 + 3) = \log 6 = \log (1 \times 2 \times 3) = \log 1 + \log 2 + \log 3$.

So, (b) is incorrect.

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(7) If $\log_{10} 2 = 0.3010$, the value of $\log_{10} 80$ is:

[A] 1.6020

[B] 1.9030

[C] 3.9030

[D] None of these

Answer : [B]

Explanation:

$\log_{10} 80 = \log_{10} (8 \times 10)$

$= \log_{10} 8 + \log_{10} 10$

$= \log_{10} (2^3) + 1$

$= 3 \log_{10} 2 + 1$

$= (3 \times 0.3010) + 1$

$= 1.9030.$

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(8)

If $\log_x \left(\frac{9}{16}\right) = -\frac{1}{2}$, then x is equal to:

[A]
$-\frac{3}{4}$

[B]
$\frac{3}{4}$

[C]
$\frac{81}{256}$

[D]
$\frac{256}{81}$

Answer : [D]

Explanation:

$\log_x \left(\frac{9}{16}\right) = -\frac{1}{2}$

$\Rightarrow x^{-1/2} = \frac{9}{16}$

$\Rightarrow \frac{1}{x} = \frac{9}{16}$

$\Rightarrow x = \frac{16}{9}$

$\Rightarrow x = \left(\frac{16}{9}\right)^2$

$\Rightarrow x = \frac{256}{81}$

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(9) If $a^x = b^y$, then:

[A]
$\log \frac{a}{b} = \frac{x}{y}$

[B]
$\frac{\log a}{\log b} = \frac{x}{y}$

[C]
$\frac{\log a}{\log b} = \frac{y}{x}$

[D] None of these

Answer : [C]

Explanation:
$a^x = b^y$
$\Rightarrow \log a^x = \log b^y$
$\Rightarrow x \log a = y \log b$
$\Rightarrow \frac{\log a}{\log b} = \frac{y}{x}$.

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(10) The value of $\log_2 16$ is:

[A]
$\frac{1}{8}$

[B] 4

[C] 8

[D] 16

Answer : [B]

Explanation:
Let $\log_2 16 = n$.
Then, $2^n = 16 = 2^4 \quad \Rightarrow \quad n = 4$.
$\therefore \log_2 16 = 4$.

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(11) 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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(12) A can finish a work in 18 days and B can do the same work in 15 days. B worked for 10 days and left the job. In how many days, A alone can finish the remaining work?

[A] 5

[B]

$5\frac{1}{2}$

[C] 6

[D] 8

Answer : [C]

Explanation:

B's 10 day's work = $\left(\frac{1}{15} \times 10\right) = \frac{2}{3}$.

Remaining work = $\left(1 - \frac{2}{3}\right) = \frac{1}{3}$.

Now, $\frac{1}{18}$ work is done by A in 1 day.

$\therefore$ $\frac{1}{3}$ work is done by A in $\left(18 \times \frac{1}{3}\right)$ = 6 days.

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(13) P can complete a work in 12 days working 8 hours a day. Q can complete the same work in 8 days working 10 hours a day. If both P and Q work together, working 8 hours a day, in how many days can they complete the work?

[A]
$5\frac{5}{11}$

[B]
$5\frac{6}{11}$

[C]
$6\frac{5}{11}$

[D]
$6\frac{6}{11}$

Answer : [A]

Explanation:

P can complete the work in (12 x 8) hrs. = 96 hrs.
Q can complete the work in (8 x 10) hrs. = 80 hrs.

$\therefore$ P's1 hour's work = $\frac{1}{96}$ and Q's 1 hour's work = $\frac{1}{80}$.

(P + Q)'s 1 hour's work = $\left(\frac{1}{96} + \frac{1}{80}\right) = \frac{11}{480}$.

So, both P and Q will finish the work in $\left(\frac{480}{11}\right)$ hrs.

$\therefore$ Number of days of 8 hours each = $\left(\frac{480}{11} \times \frac{1}{8}\right) = \frac{60}{11}$ days = $5\frac{5}{11}$ days.

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(14) A and B can do a piece of work in 30 days, while B and C can do the same work in 24 days and C and A in 20 days. They all work together for 10 days when B and C leave. How many days more will A take to finish the work?

[A] 18 days

[B] 24 days

[C] 30 days

[D] 36 days

Answer : [A]

Explanation:

2(A + B + C)'s 1 day's work = $\left(\frac{1}{30} + \frac{1}{24} + \frac{1}{20}\right) = \frac{15}{120} = \frac{1}{8}$.

Therefore, (A + B + C)'s 1 day's work = $\frac{1}{2 \times 8} = \frac{1}{16}$.

Work done by A, B, C in 10 days = $\frac{10}{16} = \frac{5}{8}$.

Remaining work = $\left(1 - \frac{5}{8}\right) = \frac{3}{8}$.

A's 1 day's work = $\left(\frac{1}{16} - \frac{1}{24}\right) = \frac{1}{48}$.

Now, $\frac{1}{48}$ work is done by A in 1 day.

So, $\frac{3}{8}$ work will be done by A in $\left(48 \times \frac{3}{8}\right)$ = 18 days.

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(15) A and B can complete a work in 15 days and 10 days respectively. They started doing the work together but after 2 days B had to leave and A alone completed the remaining work. The whole work was completed in :

[A] 8 days

[B] 10 days

[C] 12 days

[D] 15 days

Answer : [C]

Explanation:

(A + B)'s 1 day's work = $\left(\frac{1}{15} + \frac{1}{10}\right) = \frac{1}{6}$.

Work done by A and B in 2 days = $\left(\frac{1}{6} \times 2\right) = \frac{1}{3}$.

Remaining work = $\left(1 - \frac{1}{3}\right) = \frac{2}{3}$.

Now, $\frac{1}{15}$ work is done by A in 1 day.

$\therefore$ $\frac{2}{3}$ work will be done by a in $\left(15 \times \frac{2}{3}\right)$ = 10 days.

Hence, the total time taken = (10 + 2) = 12 days.

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(16) By investing Rs. 1620 in 8% stock, Michael earns Rs. 135. The stock is then quoted at:

[A] Rs. 80

[B] Rs. 96

[C] Rs. 106

[D] Rs. 108

Answer : [B]

Explanation:
To earn Rs. 135, investment = Rs. 1620.
To earn Rs. 8, investment = Rs. $\left(\frac{1620}{135} \times 8\right)$ = Rs. 96.

$\therefore$ Market value of Rs. 100 stock = Rs. 96.

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(17) A 6% stock yields 8%. The market value of the stock is:

[A] Rs. 48

[B] Rs. 75

[C] Rs. 96

[D] Rs. 133.33

Answer : [B]

Explanation:
For an income of Rs. 8, investment = Rs. 100.
For an income of Rs. 6, investment = Rs. $\left(\frac{100}{8} \times 6\right)$ = Rs. 75.

$\therefore$ Market value of Rs. 100 stock = Rs. 75.

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(18) A 12% stock yielding 10% is quoted at:

[A] Rs. 83.33

[B] Rs. 110

[C] Rs. 112

[D] Rs. 120

Answer : [D]

Explanation:
To earn Rs. 10, money invested = Rs. 100.
To earn Rs. 12, money invested = Rs. $\left(\frac{100}{10} \times 12\right)$ = Rs. 120.

∴ Market value of Rs. 100 stock = Rs. 120.

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(19)

The cost price of a Rs. 100 stock at 4 discount, when brokerage is $\frac{1}{4}$% is:

[A] Rs. 95.75

[B] Rs. 96

[C] Rs. 96.25

[D] Rs. 104.25

Answer : [C]

Explanation:
C.P. = Rs. $\left(100 - 4 + \frac{1}{4}\right)$ = Rs. 96.25

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(20) A man invested Rs. 1552 in a stock at 97 to obtain an income of Rs. 128. The dividend from the stock is:

[A] 7.5%

[B] 8%

[C] 9.7%

[D] None of these

Answer : [B]

Explanation:
By investing Rs. 1552, income = Rs. 128.
By investing Rs. 97, income = Rs. $\left(\frac{128}{1552} \times 97\right)$ = Rs. 8.

∴ Dividend = 8%

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