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IBPS RRB 2021 Quantitative Aptitude Practice PDF with Solution

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Sahi Prep Hai Toh Life Set Hai

Direction: Study the following information carefully and answer the given questions.
The table below shows the marked price and discount percentage offered on five articles A, B, C, D and E.

Article	Marked price	Discount offered
A	Rs. 3600	20%
B	Rs. 4000	15%
C	Rs. 2500	24%
D	Rs. 4800	30%
E	Rs. 3200	10%

1. If cost price of article D is Rs. 3000 then find the percentage profit earned on selling article D.
A. 12%
B. 16%
C. 8%
D. 20%
E. 24%

2.Find the difference between selling prices of article B and article E.
A. Rs. 480
B. Rs. 420
C. Rs. 560
D. Rs. 520
E. Rs. 620

3.If article A is marked 44% above the cost price then find the profit percentage on article A.
A. 12.4%
B. 13.5%
C. 16.4%
D. 14.8%
E. 15.2%

4.If article C is sold at 5% loss then find the cost price of article C.
A. Rs. 2200
B. Rs. 1500
C. Rs. 2000
D. Rs. 2400
E. Rs. 2150

5.If instead of single discount of 10% on article E, two consecutive discounts of 5% and 8% were given then the selling price will be decreased by how much amount?
A. Rs. 74.8
B. Rs. 83.2
C. Rs. 79.4
D. Rs. 81.6
E. Rs. 78.2

Direction: What value should come in place of the question mark (?) in the following question?

6. 1701 + 4011 – 3624 – 1113 = ?

A. 965
B. 975
C. 875
D. 865
E. None of these

Direction: What value should come in place of the question mark (?) in the following question?

7. $\frac{2}{7}$ of $\frac{5}{6}$ of $? = 200$

A. 480
B. 420
C. 729
D. 840
E. 800

Direction: What value should come in place of the question mark (?) in the following question?

8. $18 \times \sqrt{1156} \div 17 = ?^2$

A. 7
B. 49
C. 6
D. 36
E. 12

Direction: What value should come in place of the question mark (?) in the following question?

9. $\sqrt{?} - 34 = \sqrt{484}$

A. 56
B. 65
C. 2631
D. 3136
E. 49

Direction: What value should come in place of the question mark (?) in the following question?

10. ? × 35 + 265 = 2680

A. 79
B. 63
C. 75
D. 68
E. 69

11. In a 200m race, Abhay beats Raghav by 20m. Both of them started from the same point. Find the average distance travelled by them.
A. 180m
B. 190m
C. 150m
D. 90m
E. 110m

12. Abhishek sold an article at a profit of 18%. Had he sold the same article at a profit of 22%, he would have earned Rs. 294 more, find the cost price of article.
A. Rs 6480
B. Rs 5620
C. Rs 8440
D. Rs 7350
E. None of these

13. A boat covers 2 Km downstream in 12 minutes and came back in 20 minutes. What will be the speed of boat in still water?
A. 8 km/ hour
B. 6 km/hour
C. 4 km/hour
D. 16 km/hour
E. 10 km/hour

14. Pari is four years older than Priya. Priya is 2 years older than Piyush. The age of Piyush is 2 years. Find the present age of Pari.
A. 6 years
B. 8 years
C. 7 years
D. 4 years
E. 2 years

15. An electric pump can fill a tank in 6 hours. Because of a leak in the tank, it was taking 2 hours more to fill the tank. The leak can drain half of the tank in how many hours?
A. 24 hours
B. 18 hours
C. 20 hours
D. 12 hours
E. None of these.

ANSWERS:

1. Ans. A.

SP of article D = 70% of 4800 = Rs. 3360

Profit = 3360 – 3000 = Rs. 360

Profit % = $\frac{360}{3000} \times 100 = 12\%$

Hence, option A is correct.

2. Ans. D.

SP of article B = 85% of 4000 = Rs. 3400

SP of article E = 90% of 3200 = Rs. 2880

Difference = 3400 – 2880 = Rs. 520

Hence, option D is correct.

3. Ans. E.

CP of article A = $\frac{3600}{1.44}$ = Rs. 2500

SP of article A = 80% of 3600 = Rs. 2880

Profit = 2880 – 2500 = Rs. 380

Profit % = $\frac{380}{2500} \times 100 = 15.2\%$

Hence, option E is correct.

4. Ans. C.

SP of article C = 76% of 2500 = Rs. 1900

CP of article C = $\frac{1900}{0.95}$ = Rs. 2000

Hence, option C is correct.

5. Ans. B.

SP at 10% discount = 90% of 3200 = Rs. 2880

SP at consecutive discounts of 5% and 8% = 0.95 × 0.92 × 3200 = Rs. 2796.8

SP is increased by Rs. (2880 – 2796.8) = Rs. 83.2

Hence, option B is correct.

6. Ans. B.

? = 1701 + 4011 – 3624 – 1113 = 5712 – 4737 = 975

7. Ans. D.

$? = 200 \times \frac{7}{2} \times \frac{6}{5} = 840$

8. Ans. C.

$18 \times \sqrt{1156} \div 17 = ?^2$

$\Rightarrow 18 \times 34 \div 17 = ?^2$

$\Rightarrow 18 \times 2 = ?^2$

$\Rightarrow ?^2 = 36$

$\Rightarrow ? = 6$

9. Ans. D.

$\sqrt{?} - 34 = \sqrt{484}$

$\Rightarrow \sqrt{?} - 34 = 22$

$\Rightarrow \sqrt{?} = 56$

$\Rightarrow ? = 3136$

10. Ans. E.

? × 35 + 265 = 2680

⇒ ? × 35 = 2680 – 265

⇒ ? × 35 = 2415

⇒ ? = 69

11. Ans. B.

Since, Abhay beats Raghav by 20m

Therefore, distance travelled by Abhay = 200m

And, distance travelled by Raghav = 200 – 20 = 180

Required answer $= \frac{200 + 180}{2} =$ 190m

12. Ans. D.

Let the cost price of the article be Rs. 'x'.

ATQ,

1.22x – 1.18x = 294

⇒ 0.04x = 294

⇒ x = 7350

13. Ans. A.

Speed of Boat Downstream = 2 km × $\frac{60}{12}$ min = 10 km/hour

Speed of Boat Upstream = 2 km × $\frac{60}{20}$ min = 6 km/hour

Speed of boat in still water = $\frac{\text{Downstream} + \text{Upstream}}{2}$

= $\frac{10+6}{2}$ = 8 km/hour

14. Ans. B.

Let the age of Pari, Priya and Piyush be x, y and z years respectively.

According to the data provided in the question, we get

z = 2

⇒ y = 2 + 2 = 4

And,

x = y + 4 = 4 + 4 = 8

Therefore, present age of Pari is 8 years

15. Ans. D.

Pipe and leakage together can fill the tank in = 6 + 2 = 8 hours.

Pipe alone can fill the tank in = 6 hours.

Let capacity of the tank = LCM of 8 and 6 = 24 units

One hour work of pipe = 24/6 = 4 units.

One hour work of pipe and leakage together = 24/8 = 3 units.

One hour work of leakage = 3 – 4 = –1 units.

Leakage drain full tank in = 24/1 = 24 hours

Required time taken by leakage to drain half tank = 12/1 = 12 hours