Quiz Date: 30th August 2020

Q1. If the compound interest is 10% per annum and simple interest is 11% per annum. Find the difference between the interests obtained after 3 years on a sum of Rs 15346?(same sum is invested at both CI and SI)

(a)Rs. 24.546 (b)Rs. 12.244 (c)Rs. 15.346 (d)Rs. 30.692 (e)Rs. 14.231

Q2. A certain sum of money becomes 8 times of itself in 20 years at simple interest. In how many years does it becomes 22 times of itself at the same rate of simple interest?

- (a) 60 years
- (b) 50 years
- (c) 65 years
- (d) 66.66 years
- (e) 52 years

Q3. 15 men can complete a work in 8 days while 10 women can complete the same work in 20 days. 7 men starts working and after 12 days they are replaced by 10 women. Find time taken by 10 women to complete the remaining work.

- (a) 5 days
- (b) 8 days
- (c) 7 days
- (d) 6 days
- (e) 9 days

Q4. A mixture of 25 ℓ contains milk and water in the ratio 3 : 2. 'x' ℓ of water is added in mixture to make the ratio of milk and water as 1 : 1. After that 'y' ℓ of milk is added to make the proportion of milk and water same as in initial condition. Find 'y' is what percent more than 'x'?

- (a) 12.5%
- (b) 25%
- (c) 37.5%
- (d) 50%
- (e) 62.5%

Q5. The average age of 10 students in a class is 20 years, if a new student is also included, then the new average age of all the students increases by 1 year. The age of the new student is:

- (a) 21 years
- (b) 30 years
- (c) 31 years
- (d) 32 years
- (e) 28 years

Q6. $\sqrt{-4}$ (a) (b) (c) (d) (e)	$ \overline{\sqrt{784} + \sqrt{441}} = ?^2 + 3 $ 2 3 4 5 6	
Q7. $6\frac{1}{1}$ (a) (b) (c) (d) (e)	$ \frac{12}{17} \times 1\frac{15}{19} + 15 = ?^{3} $ 2 3 4 5 6	
Q8. 87 (a) (b) (c) (d) (e) Q9. $3^{\frac{2}{3}}$ (a) (b)	2.5 % of $64 + \frac{1}{6} \times 36 + 38 =?$ 80 110 120 90 100 $1 \times 3^{\frac{1}{3}} \times 3^{3} = 9^{?}$ 1 2	BANKERS adda 241
(c) (d) (e)	3 4 5	
Q10. v (a) (b) (c) (d) (e)	$\sqrt{156 + 13} + ? = \sqrt{176 + 20}$ 3 455 2 1 5	

Directions (6-10) : What will come in place of questions mark (?) in the following questions?

Directions (11-15): Study the following line graph and answer the questions based on it. Given below is the line graph which shows the percentage rise in price of Wheat & Rice over the given years.



Q11. If ratio between price of rice & wheat in 2014 is 3 : 4 then what will be their ratio of price in 2015 ?

(a) 20 : 23

(b) 19:21

(c) 18 : 23

(d) 23 : 28

(e) 17 : 19

Q12. If price of wheat in year 2011 is 7200 Rs per quintal then what will be its price in year 2013 per quintal?

- (a) 8420
- (b) 9012
- (c) 10500
- (d) 83250
- (e) 9108

Q13. What is the effective percentage increase in price of wheat from year 2011 to year 2013?

(a) 30%

(b) 22%

- (c) 23.5%
- (d) 26.5%
- (e) 32.75%

Q14. If a person expends Rs 4140 in buying rice at the rate of 120 Rs/kg in year 2012 then he has to reduce his consumption of rice by how many kg in year 2013 for the same expenditure of 4140?

(a) 4.5 kg

- (b) 3 kg
- (c) 2 kg

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(d) 2.5 kg (e) 4 kg

Q15. If the price of wheat in 2013 is 132 Rs/kg then what will be total cost of 25 kg of wheat in 2012 ? (a) 1250 Rs (b) 3000 Rs (c) 1500 Rs (d) 2000 Rs (e) 2500 Rs

Solutions

S1. Ans (c) Sol. ATQ, Interest difference= $principal\left[\left(1+\frac{rate}{100}\right)^{time}-1\right]-\frac{principal\times rate\times time}{100}$ $= 15346 \left[\left(1 + \frac{10}{100} \right)^3 - 1 \right] - \frac{15346 \times 11 \times 3}{100}$ $=15346\left(\frac{331}{1000}-\frac{33}{100}\right)$ $=15346 \times \frac{1}{1000}$ =Rs.15.346 adda? S2. Ans (a) Sol. Let principal = Rs.P ATQ, $7P = \frac{P \times rate \times 20}{100}$ Rate=35% So, $21p = \frac{P \times 35 \times time}{100}$ 100 Time= 60 years S3. Ans (d) Sol. $15M \times 8 = 10W \times 20$ 3M = 5WATQ Let time taken by 10 women to complete the remaining work be T days $7M \times 12 + 10W \times T = 10W \times 20$ $\frac{35}{3}W \times 12 + 10W \times T = 200W$ 10T = 200 - 140

$$T = \frac{60}{10} = 6 \ days$$
S4. Ans.(d)
Sol.
ATQ,
Initially Quantity of milk

$$= \frac{3}{5} \times 25 = 15\ell$$
Initially quantity of water

$$= \frac{2}{5} \times 25 = 10\ell$$
'x' ℓ of water is added to make the ratio of milk and water 1 : 1 \Rightarrow Quantity of milk initially is
same as quantity of water after adding 'x' ℓ water = 15 ℓ .
 $\Rightarrow x = 15 - 10 = 5\ell$
Quantity of total mixture now = 25 + 5 = 30 ℓ .
'y' ℓ of milk is added now to make the proportion of milk and water same as before = 3 : 2
 $\Rightarrow \frac{3}{5} = \frac{15+y}{30+y}$
 $\Rightarrow 90 + 3y = 75 + 5y$
 $2y = 90 - 75$
 $y = 7.5 \ell$
Required % = $\frac{7.5 - 5}{5} \times 100$
 $= \frac{25}{5} \times 100 = 50\%$
S5. Ans.(c)
Sol. Age of new student = 20 + $(1 + \frac{10}{1}) \times 1$
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S6. Ans(a)
Sol. $\sqrt{7784} + \sqrt{441} = ?^2 + 3$
 $\sqrt{28 + 21} = ?^2 + 3$
 $?^2 = 7 - 3$
 $\therefore ? = \sqrt{4}$
So, ?=2
S7. Ans(b)
Sol. $\frac{114}{7} \times \frac{34}{19} + 15 = ?^3$
 $15 + 12 = ?^3$
 $? = \sqrt{27}$
S0, ?=3
S8. Ans(e)
S8. Ans(e)
S9. $\frac{1}{8} \times 64 + \frac{1}{6} \times 36 + 38 = ?$

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56 + 6 + 38 = ?
So,?=100
S9. Ans(b)
Sol. 3^{\frac{2}{3}+\frac{1}{3}+3} = 9^?
3^4 = 3^{(2 \times ?)}
So, ?= 2
S10. Ans(d)
Sol. \sqrt{169} + ? = \sqrt{196}
?= 14-13
So, ?=1
S11. Ans.(c)
Sol.
Let the price of rice and wheat in 2014 be 3x and 4x
Ratio of price of rice to price of wheat in 2015 = (120\% \text{ of } 3x) : (115\% \text{ of } 4x)
= 18:23
S12. Ans.(e)
Sol.
Price of wheat in 2013 = 7200 \times \frac{115}{100} \times \frac{110}{100}
= 9108
S13. Ans.(d)
Sol.
Let price of wheat in 2011 = 100
so, price of wheat in 2013 = \frac{115}{100} \times \frac{110}{100} \times 100
= 126.5
So, effective increases equals = 26.5\%
S14. Ans.(a)
Sol.
In 2012 person buys = \frac{4140}{120} kg of Rice
So, in 2013 person buys =\frac{4140}{\frac{115}{100} \times 120} kg of rice
So decrease in consumption = 34.5 - 30
= 4.5 kg
S15. Ans.(b)
Sol.
Price per kg of wheat in 2012 = \frac{132 \times 100}{110}
= 120
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Total cost for 25 kg of wheat in 2012 = 120 × 25 = 3000 Rs

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