Quiz Date: 21st May 2020

Q1. Two persons M and N buy two bikes. M sells his bike at a profit of 25% and N sells his bike at a loss of 16%. If selling price of bike sold by M is Rs. 54,000 and cost price of both bikes is same then what is the selling price of bike sold by N?
(a) Rs. 32,688
(b) Rs. 36,288
(c) Rs. 38,268
(d) Rs. 34,688
(e) Rs. 32,488

Q2. Mr. Singh's monthly salary is Rs. 45,000. He spends Rs. 5000 on food, 25% of remaining on house rent and education of his children, 20% of the remaining on shoping and rest amount he invests in a scheme which offer 10% simple interest per annum. Find, after a month the total sum obtained by Mr. Singh, from the scheme is how much (approximately)?
(a) Rs. 26,520
(b) Rs. 22,520
(c) Rs. 24,200
(d) Rs. 26,400
(e) Rs. 24,720

Q3. Two trains A and B are running in same direction from the same station. The speed of train A is five-fourth of the speed of train B. If train B crosses a platform in 32 second then in how much time train A will cross the same platform if length of train B is 200m and that of train A is 125% of the length of train B, also train A crosses a man in 10 seconds?
(a) 10.8 sec
(b) 12.8 sec
(c) 18.4 sec
(d) 14.8 sec
(e) 27.6 sec

Q4. The height of a cone is seven fourth of the height of a cylinder. The Volume of cylinder is equal to the volume of a cube with side is 22 m. If radius of cylinder is 7m then what is the height of the cone?
(a) 77 m
(b) 66 m
(c) 121 m
(d) 111 m
(e) 55 m

Q5. Karim, a tourist leaves Ellora on a bicycle. Having travelled for 1.5 hr at 16 km/hr, he makes a stop for 1.5 hr and then pedals on with the same speed. Four hours after Karim started journey, his friend and local guide Rahim leaves Ellora on a motorcycle and rides with a speed of 28 km/hr in the same direction as Karim had gone. What distance will they cover before Rahim overtakes Karim?
(a) 88 km

(b) 90.33 km
(c) 93.33 km
(d) 96.66 km
(e) 98 km

Q6. There are two garbage disposal rectangular tanks, A and B with lengths 12 m and 15 m respectively in a square field. If the total area of the square field excluding the rectangular tanks is 360 sq. m. and the breadth of both the rectangular tanks is 1/3 of the side of the square field, what is the perimeter of the square field? (in metre)
(a) 92
(b) 84
(c) 96
(d) 78
(e) 72

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Q7. A frog tries to come out of a well whose inner sides are slippery. Due to the slippery walls the frog slips 20 m down in every attempt of 40 m going up. If the depth of the well is 200m then in how many attempts the frog will come out of the well?
(a) 10
(b) 9
(c) 11
(d) 12
(e) 8

Q8. There are two containers P and Q. The container P contains a mixture of acetic acid and alcohol in the ratio 11 : 13. The container Q contains same mixture as P having alcohol to acetic acid in the ratio of 7 : 5. If 48 litre mixture of container P is mixed with 36 litre mixture of container Q then find the quantity of alcohol and acetic acid respectively in new mixture formed by mixing these two.
(a)49L, 35 L
(b)11L, 73 L
(c)47L, 37 L
(d)52L, 32 L
(e)45L, 39 L

Q9. Ravi and Raju can do a piece of work in 30 and 45 days respectively. They started working together and after 6 days from their start Raju leaves and a new person Sohan whose efficiency is 5/4 of that of Raju joins Ravi. In how many days remaining work will be complete now?
(a) 120/11 days
(b) 130/11 days
(c) 13 days
(d) 8 days
(e) 125/11 days

Q10. A person barrow Rs. 20,000 from bank. Bank charges compound interest for three years at three different rates 5%, 10% and 20% per annum for first, second and third year respectively. Find the total interest paid by man to the bank after three years.
(a) Rs. 7,270
(b) Rs. 7,720
(c) Rs. 8,720
(d) Rs. 6,720
(e) Rs. 7,740

Directions(11-15): Find the wrong number in the given series that does not follow the pattern?
Q11.   480,   960,   320,   1280,   272 ,   1536
(a) 960
(b) 272
(c) 1280
(d) 320
(e) 1536

Q12.   210,   197,   171,   135 ,   80,   15
(a) 197
(b) 15
(c) 80
(d) 171
(e) 135

Q13.   4,   3,   5,   14,   60 ,   528
(a) 60
(b) 4
(c) 5
(d) 14
(e) 528

Q14.   9,   63 ,   25,   216,   49,   512
(a) 25
(b) 216
(c) 63

(d) 512
(e) 49

Q15. 224,   118,   184,   468,   1648,   7421.5
(a) 224
(b) 118
(c) 1648
(d) 468
(e) 184

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S1. Ans.(b)

C.P. of each bike = $54000 \times \frac{100}{125}$

= $Rs. 43,200$

∴ Selling price of bike sold by N

= $43,200 \times \frac{84}{100}$

Sol. = $Rs. 36,288$

S2. Ans.(c)

Spending on food = 5000

On house rent and education of children

= $40,000 \times \frac{25}{100}$

= 10,000

On shopping = $30,000 \times \frac{20}{100} = 6,000$

∴ Amount in vested in scheme

= 45000– (5000 + 10,000 + 6,000)

= 24,000

∴ Sum obtained by Mr. Singh from the

scheme after a month = $24,000 + \frac{24,000 \times 10}{100 \times 12}$

Sol. = Rs. 24,200

S3. Ans.(e)

Let length of platform = x metre
And speed of train B = 4y m/sec
∴ speed of train A = 5y m/sec
ATQ,

$\frac{x+200}{4y} = 32$

$\Rightarrow x - 128y = -200$

And length of train A = $200 \times \frac{125}{100} = 250m$

∴ $\frac{250}{5y} = 10 \Rightarrow y = 5$

∴ Speed of train A = 25 m/sec
And speed of train B = 20 m/sec
∴ Length of platform = 128 × 5 – 200
= 440m
∴ Time required by train A to cross the platform

$= \frac{440+250}{25}$

Sol. = 27.6 sec

S4. Ans.(c)
Let height of cylinder = H metre
∴ Volume of cylinder = $\pi r^2 H$
r = radius of cylinder
∴ $\frac{22}{7} \times 7 \times 7 \times H = 22 \times 22 \times 22$

$\Rightarrow H = \frac{484}{7}m$

∴ Height of cone = $\frac{484}{7} \times \frac{7}{4}$

Sol. = 121m

S5. Ans.(c)
Distance covered by Karim in 4 hours
= 1.5 × 16 + 1 × 16
= 40 km
∴ time taken by Rahim to overtake Karim

$= \frac{40}{28 - 16}$

$= \frac{40}{12} = \frac{10}{3}h$

∴ Distance travelled by them

$= 28 \times \frac{10}{3}$

Sol. = 93.33 km

S6. Ans. (c)

Let side of square field = a mtere

∴ Breadth of rectangular tanks = $\frac{a}{3}$ metres

ATQ,

$a^2 - \frac{12a}{3} - \frac{15a}{3} = 360$

⇒ $a^2 - 9a - 360 = 0$

⇒ a = 24 m

Sol. ∴ Perimeter of square field = 96 m

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S7. Ans.(b)

In first attempt frog climbs → (40 − 20) = 20m

∴ Total no. of attempt = $\frac{200}{20} - 1$

= 9

Sol.

S8. Ans.(c)

Quantity of alcohol = $\frac{13}{24} \times 48 + \frac{7}{12} \times 36$

= 47 litres

Quantity of acetic acid = $\frac{11}{24} \times 48 + \frac{5}{12} \times 36$

= 37 litres

Sol.

S9. Ans.(a)
Sol.
Let total work 90 (LCM)
so, efficiency of Ravi and Raju is 3 units/day and 2 units/day respectively.
Efficiency of Sohan = $2 \times \frac{5}{4} = 2.5 \ units/day$
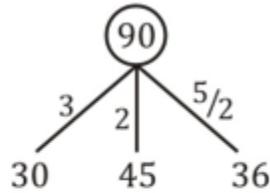
Total work in 6 days $= (2 + 3) \times 6 = 30$
Remaining work $= 90 - 30 = 60$
Time to complete remaining work
$= \dfrac{60}{3 + \frac{5}{2}} = \dfrac{60}{5.5} = \dfrac{120}{11} \ days$

S10. Ans.(b)
Total sum after three years
$= 20{,}000 \times \dfrac{105}{100} \times \dfrac{110}{100} \times \dfrac{120}{100}$
$= 27{,}720$
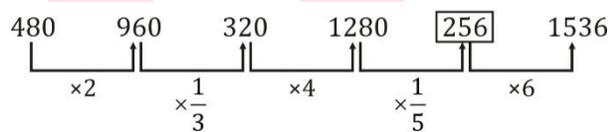∴ C.I. paid by man to bank
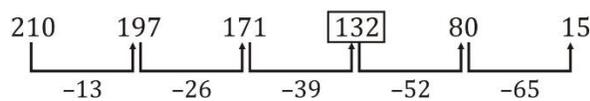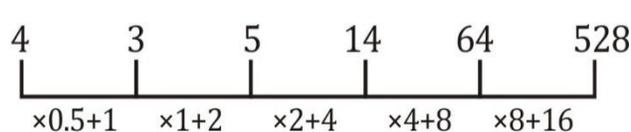$= 27{,}720 - 20{,}000$
Sol. $= 7{,}720$ rupees

S11. Ans.(b)
Sol.

S12. Ans.(e)
Sol.

S13. Ans.(a)
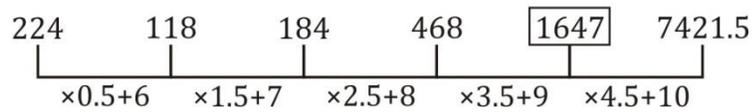Sol.

S14. Ans.(c)
Sol.
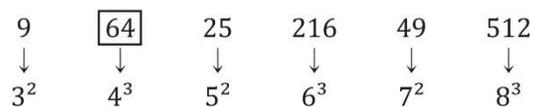
S15. Ans. (c)
Sol.
Wrong number = 1648
Pattern of series

224	118	184	468	1647	7421.5

×0.5+6   ×1.5+7   ×2.5+8   ×3.5+9   ×4.5+10

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