

Quiz Date: 29th March 2020

Q1. Panchhi's age 8 years ago is equal to the sum of present ages of her son and her daughter. 5 years hence, the ratio between her daughter's age and her son's age will be 7 : 6 respectively. Panchhi's husband is 7 years older than her. Her husband's present age is thrice the present age of his son. What is her daughter's present age?

- (a) 23 years
- (b) 24 years
- (c) 28 years
- (d) 25 years
- (e) 18 years

Q2. A motorboat went downstream for 28 km and immediately returned. It took the boat twice as long to make the return trip than the downstream trip. If the speed of the river flow were twice as high, the whole trip downstream and back would take 672 minutes. Find the speed of the boat in still water and the speed of the river flow.

- (a) 9 km/hr, 3 km/hr
- (b) 9 km/hr, 6 km/hr
- (c) 8 km/hr, 2 km/hr
- (d) 12 km/hr, 3 km/hr
- (e) None of these

Q3. The simple interest (p.a.) accrued on an amount of Rs 17,000 at the end of four years is Rs 6,800. What would be the compound interest (compounded annually) accrued on the same amount at the same rate in two years?

- (a) Cannot be determined
- (b) Other than those given as option
- (c) Rs 3570
- (d) Rs 3260
- (e) Rs 3980

Q4. A person C can complete 21% of work in 10 days while working with $233\frac{1}{3}\%$ of his efficiency. B is $11\frac{1}{9}\%$ more efficient than C. A, while working with his half efficiency can complete the work in half time as compared to time taken by B. Find the time taken by A & B together to complete the 50% of whole work.

- (a) 15 days
- (b) 10 days
- (c) 20 days
- (d) 25 days
- (e) 22 days

Q5. A bag contains 4 red and 3 black balls. A second bag contains 2 red and 4 black balls. One bag is selected at random. From the selected bag, one ball is drawn. Find the probability that the ball drawn is red.

- (a) $\frac{23}{42}$
(b) $\frac{19}{42}$
(c) $\frac{7}{32}$
(d) $\frac{16}{39}$
(e) None of these

Direction (6-10): What will come in place of '?' in the following questions.

Q6. $\frac{3}{8}$ of $168 \times 15 \div 5 + ? = 549 \div 9 + 235$

- (a) 163
(b) 199
(c) 107
(d) 126
(e) 173



Q7. $11 \times 3^4 + \frac{1}{?}$ of $385 - 1698 \div 6 = 685$

- (a) 5
(b) 4
(c) 8
(d) 6
(e) 9

Q8. $(?)^2 - 364 \div 7 \times 6 + 289 = 26 \times (121 + 72)$

- (a) 95
(b) 89
(c) 83
(d) 71
(e) 61

Q9. $\frac{1}{(4913)^{\frac{1}{3}}}$ of $1411 + 583 \times ? = 16\frac{2}{3}\%$ of 14490

- (a) 5
(b) 6
(c) 7
(d) 8

(e) 4

Q10. $14\frac{2}{7}\%$ of 27048 $\div \sqrt{576} = (?)^{\frac{1}{2}}$

- (a) 25571
- (b) 25921
- (c) 25252
- (d) 25481
- (e) 25371

Directions (11-15): What will come in place of question mark (?) in the following number series?

Q11. 23 50 108 232 492 ?

- (a) 1028
- (b) 1024
- (c) 1020
- (d) 1032
- (e) None of these

Q12. 60 60 48 28.8 11.52 ?

- (a) 3.072
- (b) 3.142
- (c) 3.224
- (d) 3.912
- (e) None of these

Q13. 441 441 147 735 105 ?

- (a) 935
- (b) 945
- (c) 735
- (d) 525
- (e) None of these

Q14. 5 6 16 ? 244

- (a) 52
- (b) 38
- (c) 57
- (d) 51
- (e) None of these

Q15. 23 11.5 17.2 43.125 ?

- (a) 150.9375
- (b) 90.5625
- (c) 145.5625
- (d) 120.9325
- (e) None of these

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Solutions

S1. Ans.(a)

Sol. Let P = Panchhi's present age

S = Son's age

D = Daughter's age

ATQ,

$$P - 8 = S + D \dots(i)$$

$$\& P + 7 = 3S$$

$$\Rightarrow P = 3S - 7$$

$$\Rightarrow 2S - D = 15 \dots(ii)$$

$$\text{now, } \frac{D + 5}{S + 5} = \frac{7}{6}$$

$$\Rightarrow 7S - 6D = -5 \dots(iii)$$

Solving equations (ii) & (iii) we get,

D = 23 years.



S2. Ans.(a)

Sol.

Let speed boat = x km/hr

Let speed of stream = y km/hr

Condition I

$$2 \times \frac{28}{x + y} = \frac{28}{x - y} \Rightarrow \frac{x}{y} = \frac{3}{1}$$

$$x = 3y$$

Condition II

$$\frac{28}{(3y + 2y)} + \frac{28}{(3y - 2y)} = \frac{672}{60}$$

$$\Rightarrow \frac{28}{5y} + \frac{28}{y} = \frac{672}{60}$$

$$\Rightarrow \frac{28 + 28 \times 5}{5y} = \frac{672}{60} \Rightarrow y = 3 \text{ km/hr}$$

∴ Speed of boat in still water = 9 km/hr
And speed of stream = 3 km/hr

S3. Ans.(c)

Sol.

Let the rate of interest be r percent per annum

$$\therefore 6800 = \frac{17000 \times r \times 4}{100}$$

$$\Rightarrow r = 10\%$$

$$\therefore \text{C.I.} = 17000 \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right] = 17000 \left(\frac{121 - 100}{100} \right) = \text{Rs. } 3,570$$

S4. Ans.(b)

Sol.

Let the efficiency of C is C units/days and total work be $100a$ Units

ATQ,

$$\frac{7}{3} c \times 10 = 21a$$

$$\left[233\frac{1}{3}\% = \frac{7}{3} \right]$$

$$C = \frac{9a}{10} \text{ Units / day}$$

Also, B is $11\frac{1}{9}\%$ more efficient than C means

$$B = \frac{10}{9} \text{ of } C$$

$$B = \frac{10}{9} \times \frac{9a}{10} \text{ Units/day}$$

$$= a \text{ Units / day}$$

A which while working with half efficiency total half time.

$$\therefore A : B = 4 : 1 \text{ [efficiency ratio]}$$

$$\text{Efficiency of A} = 4a$$

$$\text{Efficiency of A + B together is } 4a + a = 5a/\text{day}$$

$$\text{Time take to complete } 50a \text{ Units} = \frac{50a}{5a} = 10 \text{ days}$$

S5. Ans (b)

$$\text{Sol. } \frac{1}{2} \times \frac{4}{7} + \frac{1}{2} \times \frac{2}{6}$$

$$= \frac{4}{14} + \frac{2}{12} = \frac{19}{42}$$

S6. Ans.(c)

$$\text{Sol. } \frac{63 \times 15}{5} + ? = 61 + 235$$

$$? = 296 - 189 = 107$$

S7. Ans.(a)

$$\text{Sol. } 11 \times 81 + \frac{1}{7} \text{ of } 385 - 283 = 685$$

$$\frac{1}{7} \text{ of } 385 = 685 + 283 - 891$$

$$? = \frac{385}{77} = 5$$

S8. Ans.(d)

$$\text{Sol. } (?)^2 - 312 + 289 = 5018$$

$$(?)^2 = 5041$$

$$? = 71$$

S9. Ans.(e)

$$\text{Sol. } \frac{1411}{\frac{17}{2332}} + 583 \times ? = 2415$$

$$? = \frac{2332}{583} = 4$$

S10. Ans.(b)

$$\text{Sol. } \frac{3864}{24} = (?)^{\frac{1}{2}}$$

$$161 = (?)^{\frac{1}{2}}$$

$$? = (161)^2 = 25921$$

S11. Ans. (a)

Sol.

Pattern is

$$23 \times 2 + 4 = 50$$

$$50 \times 2 + 8 = 108$$

$$108 \times 2 + 16 = 232$$

$$232 \times 2 + 28 = 492$$

$$492 \times 2 + 44 = 1028$$

Also, addition of numbers is in pattern

$$4 + 4 \times 1 = 8$$

$$8 + 4 \times 2 = 16$$

$$16 + 4 \times 3 = 28$$

$$28 + 4 \times 4 = 44$$

S12. Ans. (e)

Sol. pattern is

$$60 \times 1.0 = 60$$



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$$60 \times 0.8 = 48$$

$$48 \times 0.6 = 28.8$$

$$28.8 \times 0.4 = 11.52$$

$$11.52 \times 0.2 = 2.304$$

S13. Ans. (b)

Sol. The series is

$$\times 1, \div 3, \times 5, \div 7, \times 9$$

$$105 \times 9 = 945$$

S14. Ans. (c)

Sol. The series is

$$\times 1 + 1^2, \times 2 + 2^2, \times 3 + 3^2, \times 4 + 4^2$$

$$16 \times 3 + 3^2 = 57$$

S15. Ans. (a)

Sol. The series is

$$\times 0.5, \times 1.5, \times 2.5, \times 3.5$$

$$43.125 \times 3.5 = 150.9375$$



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