

Quiz Date: 4th April 2020

Q1. For every 20-kg retailer give 2 kg rice free. He marked up the rice 50% more than the cost price. A customer came and buy 500 kg rice at $16\frac{2}{3}\%$ discount. Find profit percentage of retailer if retailer weighs 20% less?

- (a) $41\frac{1}{22}\%$
- (b) $42\frac{1}{22}\%$
- (c) $44\frac{1}{22}\%$
- (d) $43\frac{1}{22}\%$
- (e) $45\frac{1}{22}\%$

Q2. A, B and C are situated at the bank of river which is flowing at a constant rate. B is at an equal distance from A and C. Swimmer Avinash takes 10 hr to swim from A to B and B to A. Also, he takes 4 hr to swim from A to C. What is the ratio of speed of Avinash in still water and speed of stream?

- (a) 3 : 5
- (b) 5 : 3
- (c) 2 : 5
- (d) 1 : 2
- (e) 5 : 2

Q3. At present, Meena is eight times her daughter's age. Eight years from now, the ratio of the ages of Meena and her daughter will be 10 : 3 respectively. What is Meena's present age?

- (a) 32 yr
- (b) 40 yr
- (c) 36 yr
- (d) Can't be determined
- (e) None of these

Q4. The average height of 40 students is 163 cm. On a particular day, three students A, B, C were absent and the average of the remaining 37 students was found to be 162 cm. If A, B have equal heights and the height of C be 2 cm less than that of A, find the height of A.

- (a) 176 cm
- (b) 166 cm
- (c) 180 cm
- (d) 186 cm
- (e) None of these

Q5. A and B together can complete a job in 8 days. Both B and C, working alone can finish the same job in 12 days, A and B commence work on the job, and work for 4 days, where upon A leaves, B continues for 2 more days, and then he leaves too, C now starts working, and finishes the job. How many days will C require?

- (a) 5 days

- (b) 8 days
 (c) 3 days
 (d) 4 days
 (e) 9 days

DIRECTIONS (6-10): Given below is the information about candidates appeared and candidates qualified from 2 states P and Q in different years in a college entrance test

Years	State P		State Q	
	No. of Appeared Candidate	% of appeared candidates who Qualified	No. of Appeared Candidates	% of appeared Candidates who Qualified
2006	450	60%	–	30%
2007	600	43%	–	45%
2008	–	60%	280	60%
2009	480	70%	550	50%
2010	380	–	400	–

Note : - Few values are missing in table, a candidate is expected to calculate the missing values if it is required to answer the given questions on the basis of given information.

Q6. Out of the number of qualified candidates from state P in 2008 the ratio of male to female candidate is 1 : 7. If the number of Female qualified candidates from state P in 2008 is 126. What is the number of appeared candidates (both Male & Female) from State P in 2008.

- (a) 144
 (b) 236
 (c) 240
 (d) 250
 (e) 380



Q7. The number of appeared candidates from state Q increased by 100% from 2006 to 2007. If total number of qualified candidates from state Q in 2006 and 2007 together is 408 then number of appeared candidates from state Q in 2006 is what percent of total number of candidates appeared from state Q in 2006 to 2010?

- (a) 15.31
 (b) 15.11
 (c) 15.51

- (d)15.71
(e)15.91

Q8. If 65% candidates from state P and 35% candidates from state Q qualified in 2010, then find the difference between the candidates qualified from state P in 2009 and 2010 together and candidates qualified from state Q in the same years?

- (a)248
(b)348
(c)448
(d)254
(e)none of these

Q9. If number of appeared candidates in 2006 from state P was increased by 25% as compared to previous year (2005) and the percentage of qualified candidates from the same is increased by 20% in 2006 as compared to 2005, then find the ratio of qualified candidates from state P in 2005 to appeared candidates of the same in 2006.

- (a)2:3
(b)3:5
(c)4:5
(d)2:5
(e) 3:4

Q10. Qualified candidates from state P in 2006 and 2007 together is approximate what percent more than qualified candidates from state Q in 2008 and 2009 together?

- (a) 19%
(b)15%
(c) 21%
(d) 23%
(e) 25%

Directions (11-15) :- What approximate value should come in place of question mark (?) in following questions.

Q11. $518.17 \div 36.91 \times 8 + 210.938 = ? + (16.02)^2$

- (a) 77
(b) 67
(c) 93
(d) 65
(e) 60

Q12. $3.06 \text{ of } 39.99 + \frac{4.01}{9.04} \times 2160 - 89.9\% \text{ of } 550 = ?$

- (a) 585
(b) 590
(c) 580
(d) 578
(e) 595

Q13. $(24.96\% \text{ of } 4201) - ? = (111.7\% \text{ of } 25)^2$

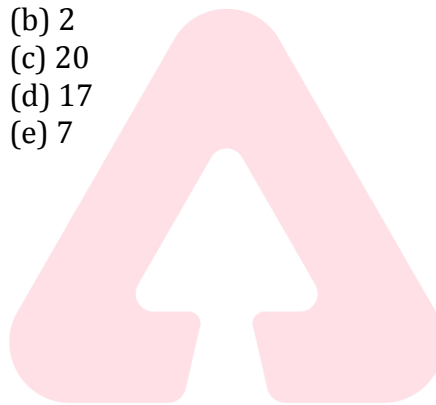
- (a) 283
- (b) 259
- (c) 275
- (d) 266
- (e) 255

Q14. $\sqrt{2917} + 31.88\% \text{ of } 250 - ? = 290.08\% \text{ of } 29.98$

- (a) 53
- (b) 37
- (c) 57
- (d) 47
- (e) 41

Q15. $(\sqrt{2.09})^2 \times 399.91 \sqrt{2.09} = 4.03^4 \times 5.002^2$

- (a) 14
- (b) 2
- (c) 20
- (d) 17
- (e) 7



Solutions

S1. Ans.(b)

Sol.

Let cost price per kg of rice = 100

Mark price per kg of rice = 150

$$\text{Discounted price per kg of rice} = 150 \times \frac{250}{300}$$

$$= 125$$

Amount priced by customer = $500 \times 125 = 62500$

50 kg rice given free on 500 kg rice

Total cost price retailer has to bear if he weighs 20% less

$$= \frac{550 \times 800}{1000} \times 100$$

$$= 44,000$$

$$\text{Profit \%} = \frac{62500-44000}{44000} \times 100$$

$$= \frac{185}{440} \times 100$$

$$= 42\frac{1}{22}\%$$

S2. Ans.(b)

Sol. Let speed of Avinash in still water be a kmph and speed of stream be b kmph.

Let AB = BC = x km

From first condition,

$$\frac{x}{a+b} + \frac{x}{a-b} = 10 \dots\dots\dots(i)$$

From second condition,

$$\frac{2x}{a+b} = 4$$

$$\Rightarrow \frac{x}{a+b} = 2 \dots\dots\dots(ii)$$

Putting the value in eq. (i), we get

$$2 + \frac{x}{a-b} = 10$$

$$\Rightarrow \frac{x}{a-b} = 8 \dots\dots\dots(iii)$$

On dividing equation (iii) by equation (ii), we get

$$\frac{a+b}{a-b} = \frac{8}{2} = 4$$

$$\Rightarrow 3a = 5b$$

$$\therefore a : b = 5 : 3$$

S3. Ans (a)

Sol. Let Meena's age = 8x

Her daughter's age = x

$$\therefore \frac{8x+8}{x+8} = \frac{10}{3}$$

$$24x + 24 = 10x + 80$$

$$14x = 56$$

$$x = 4$$

$$\therefore \text{Meena's present age} = 8x = 32 \text{ yr}$$

S4. Ans (a)

Sol. A + B + C = 526

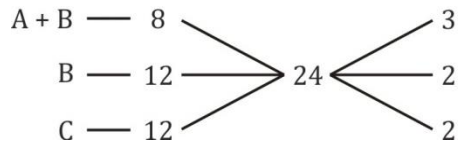
$$x + x + x - 2 = 526$$

$$x = 176 \text{ cm}$$

S5. Ans.(d)

Sol.





(A + B) work for 4 days = $3 \times 4 = 12$ units

B work for 2 more days = $2 \times 2 = 4$ units

Remaining work done by C alone = $\frac{24-16}{2} = \frac{8}{2} = 4$ days

S6. Ans (c)

Sol. Let number of appeared candidates from state P = x

No. of qualified candidates $\frac{60}{100} \times x$

No. of female candidates who qualified = $\frac{7}{(1+7)} \times \frac{60}{100} \times x = 126$

$x = 126 \times \frac{8}{7} \times \frac{100}{60} = 240$



S7. Ans (b)

Sol. Let no. of appeared candidates in 2006 = x

No. of appeared candidates in 2007 = $\frac{(100+100)}{100} \times x = 2x$

$\frac{30}{100}x + \frac{45}{100} \times 2x = 408$

$x = 340$

Required percentage = $\frac{340}{(340+680+280+550+400)} \times 100 = 15.11\%$

S8. Ans (e)

Sol. Candidates qualified from state P in

2009 and 2010 together = $\left(\frac{70}{100} \times 480\right) + \left(\frac{65}{100} \times 380\right) = 583$

Candidates qualified from state Q in 2009 and 2010 together $\left(\frac{50}{100} \times 550\right) + \left(\frac{35}{100} \times 400\right)$
 = $275 + 140 = 415$

Difference = $583 - 415 = 168$

S9. Ans (d)

Sol. No. of appeared candidates in 2005 from state P

= $450 \times \frac{100}{125} = 360$

% of qualified candidates in 2005 from state P

$$60 \times \frac{100}{120} = 50\%$$

No. of qualified candidates from state P in 2005 = $\frac{50}{100} \times 360 = 180$

$$\text{required ratio} = \frac{180}{450} = 2 : 5$$

S10. Ans (a)

$$\text{Sol. qualified candidates in 2006 and 2007 from state P} = \left(450 \times \frac{60}{100}\right) + \left(600 \times \frac{43}{100}\right)$$

$$= 270 + 258 = 528$$

qualified candidates from state Q in 2008,

$$\text{and 2009} = \left(280 \times \frac{60}{100}\right) + \left(\frac{550 \times 50}{100}\right)$$

$$= 168 + 275 = 443$$

$$\text{required percentage} = \frac{528-443}{443} \times 100$$

$$= 19\%$$

S11. Ans(b)

$$\text{Sol. } 518 \div 37 \times 8 + 211 \approx ? + (16)^2$$

$$112 + 211 - 256 \approx ?$$

$$? \approx 67$$

S12. Ans(a)

$$\text{Sol. } 3 \times 40 + \frac{4}{9} \times 2160 - \frac{90}{100} \times 550 \approx ?$$

$$? \approx 120 + 960 - 495$$

$$? \approx 585$$

S13. Ans(d)

$$\text{Sol. } \frac{25}{100} \times 4200 - ? \approx \left(\frac{112}{100} \times 25\right)^2$$

$$1050 - ? \approx 784$$

$$? \approx 266$$

S14. Ans(d)

$$\text{Sol. } \sqrt{2916} + \frac{32}{100} \times 250 - ? \approx \frac{290}{100} \times 30$$

$$? \approx 54 + 80 - 87$$

$$? \approx 47$$

S15. Ans(e)

$$\text{Sol. } (\sqrt{2})^? \times 400\sqrt{2} \approx 4^4 \times 5^2$$

$$(\sqrt{2})^? \approx \frac{4^4 \times 25}{400 \times \sqrt{2}}$$

$$(\sqrt{2})^? \approx \frac{(\sqrt{2})^{16}}{(\sqrt{2})^{8+1}}$$

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$$(\sqrt{2})^? \approx (\sqrt{2})^7$$

? \approx 7

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