

Quiz Date: 10th March 2020

Directions (1-5): Given below is the data about players participated for state level and National level championship in six different years i.e., 2001 to 2006. Total players participated for both Championship in 2006 is 6000 while in 2003 is 4800. Total number of players participated for national level championship in 2001 and 2003 is 3600 and is in ratio of 11 : 7. Player participated for state championship in 2005 is 25% more than player participated for national Championship in same year. Total players participated in 2006 is 20% more than total players participated in 2001. Players participated for state Championship in 2006 is $62\frac{1}{2}\%$ more than players participated for national championship in 2005. Ratio of total players participated in 2006 to 2004 is 15 : 13. Total number of players participated for state championship in all six years is 20000. Players participated for national championship in 2001 is same as players participated for state championship in 2005. Players participated for state championship in 2002 is 800 more than that of players participated for same championship in 2004. Players participated for National level championship in 2004 is 1200 less than that of for same Championship in 2002.

Q1. In which year total players participated in both championships 3rd highest?

- (a) 2002
- (b) 2004
- (c) 2006
- (d) 2001
- (e) 2003

Q2. What is the respective ratio between players participated for state level championship in year 2001, 2002 and 2004 together to the players participated for national level championship in year 2003, 2004 and 2005 together?

- (a) 1145:493
- (b) 1154:441
- (c) 1154:439
- (d) 439:1154
- (e) 1105:439

Q3. Find the difference between average number of players participated for state level championship and average of players participated for national level championship for starting four years?

- (a) 1900
- (b) 1920
- (c) 1820
- (d) 1780
- (e) 1940

Q4. Players participated for state level championship in 2003 is how much more than players participated for national level championship in 2002?

- (a) 930
- (b) 940
- (c) 950
- (d) 960
- (e) 970

Q5. Total number of players participated for both championships in 2002 is what percent more than total number of players participated for both championships in 2001?

- (a) 44%
- (b) 42%
- (c) 45%
- (d) 40%
- (e) 46%

Directions (6-10): Study the following information carefully to answer the following questions.

The ratio of male to female employees in an organization is 5 : 7. All employees of the organization work at different levels. (Level- I, II, III, IV, V). $16\frac{2}{3}\%$ of the male employees work at level I. The difference between male employees working at level II and male employees working at level IV is 114, while the sum of the same is 250. (male employees at level II < male employees at level IV). 9 male employees work at level V, which is 2% of the total number of male employees. Remaining male employees work at level III. $22\frac{2}{9}\%$ of the female employees work at level I. The no. of Female employees working at level II is 6 more than the no. of female employees working at level III. The number of female employees working at level IV is 2 more than the number of male employees at the same level. The number of female employees working at level V is $57\frac{1}{7}\%$ of the female employees working at level I.

Q6. Find the total number of employees working on level II.

- (a) 176
- (b) 184
- (c) 188
- (d) 192
- (e) 172

Q7. Female employees working on level V constitutes what percent of total number of employees in the organization?

- (a) $9\frac{11}{27}\%$
- (b) $7\frac{8}{27}\%$
- (c) $5\frac{5}{9}\%$
- (d) $7\frac{11}{27}\%$
- (e) None of these

Q8. What is the respective ratio of male employees working at level I to the female employees working at level V?

- (a) 15 : 16
- (b) 14 : 15
- (c) 15 : 17
- (d) 17 : 19
- (e) 18 : 19



Q9. What is the total number of employees working at level I, level II and level III?

- (a) 325
- (b) 425
- (c) 475
- (d) 525
- (e) None of these

Q10. The number of female employees of which level is equal to the number of male employees of level III?

- (a) level I
- (b) level II
- (c) level III
- (d) level IV
- (e) level V

Directions (11 – 15): Veer left Delhi at 11:00 A.M. for Lucknow by bus. Lucknow is **(P)** km away from Delhi. Speed of bus is **(Q)** km/hr. At 12:12 P.M. or after $\left(\frac{2}{15}\right)^{\text{th}}$ of P, bus stopped due to some technical issues. Veer starts walking at 12 km/hr in the direction of Lucknow to eat something and he stopped at a Dhaba which is 6 kms away from the point where bus stopped. Veer finished eating in 5 minutes. After eating, Veer took the same bus which is moving at 125% of Q and he met his friend Sameer at 5:47 P.M. when he was just 118 km away from Lucknow at a road side shop. Both talked for 30 minutes and decided that they will have a race to find who reaches Lucknow first. Sameer is running at a speed of **(R)** km/hr, while Veer is running with $133\frac{1}{3}\%$ of his walking speed. Sameer reached Lucknow 88.5 minutes earlier than Veer.

After reaching Lucknow, Sameer and Veer starts working on a task, Veer alone can complete the task in 20 hours and Sameer alone takes 20% more time than Veer to complete the same task. With the help of Ayush (who is $33\frac{1}{3}\%$ less efficient than Veer), they completed

the same task together in **(S)** hours and they earned Rs. 21,600 as their wages on completion of the task. All three have invested their wages in a partnership business for two years and profit share of Veer is **(T)** out of total profit of Rs. 27,900.

Q11. What is the ratio of value of Q to that of the value of P?

- (a) 1:8
- (b) 1:9
- (c) 2:15
- (d) 2:21
- (e) 3: 25

Q12. Value of Q is what times of value of R?

- (a) 3 times
- (b) 2 times
- (c) 8 times
- (d) 4 times
- (e) 6 times

Q13. What is the value of S?

- (a) 5 hours
- (b) 10 hours
- (c) 9 hours
- (d) 6 hours
- (e) 8 hours

Q14. What is the value of T?

- (a) Rs 11750
- (b) Rs 12250
- (c) Rs 11160
- (d) Rs 13750
- (e) Rs 12950

Q15. Veer invested his profit share in a scheme for two years which offers CI at 20% per annum. Find the compound interest received in 2nd year?

- (a) Rs 8490
- (b) Rs 8370
- (c) Rs 8600
- (d) Rs 8210
- (e) Rs 8420



Solutions

S (1-5)

Total players participated in 2006 = 6000

Total players participated in 2003 = 4800

Total players participated for national level Championship in 2001 & 2003 = 3600

Total players participated for National level championship in 2001

$$= 3600 \times \frac{11}{18}$$

$$= 2200$$

Total players participated for national Level championship in 2003

$$= 3600 \times \frac{7}{18}$$

$$= 1400$$

Total player participated for state level championship in 2003

$$= 4800 - 1400$$

$$= 3400$$

Total player participated in 2001

$$= 6000 \times \frac{100}{120} = 5000$$

Total player participated in 2001 for state level championship

$$= 5000 - 2200$$

$$= 2800$$

Total player participated in 2004

$$= \frac{6000}{15} \times 13$$

$$= 5200$$

Players participated for national championship in 2001 = Players participated for state championship in 2005 = 2200

Player participated for national championship in 2005

$$= \frac{2200}{5} \times 4$$

$$= 1760$$

Player participated for state level championship in 2006

$$= \left[1 + \frac{5}{8}\right] \times 1760$$

$$= \frac{13}{8} \times 1760$$

$$= 220 \times 13$$

$$= 2860$$

Player participated for national championship in 2006

$$= 6000 - 2860$$

$$= 3140$$

Let players participated for state level championship in 2004 = X

Players participated for state level championship in 2002 = X + 800

$$\Rightarrow X + X + 800 + 3400 + 2800 + 2200 + 2860 = 20000$$

$$2X = 20000 - 12060$$

$$X = \frac{7940}{2}$$

$$X = 3970$$

Player participated for state championship level in 2004 = 3970

Player participated for state level championship in 2002

$$= 3970 + 800$$

$$= 4770$$

Players participated for national level championship in 2004

$$= 5200 - 3970$$

$$= 1230$$

Players participated for national level championship in 2002

$$= 1230 + 1200$$

$$= 2430$$

Years	state level championship	National Level Championship	Total
2001	2800	2200	5000
2002	4770	2430	7200
2003	3400	1400	4800
2004	3970	1230	5200
2005	2200	1760	3960
2006	2860	3140	6000

S1. Ans.(b)

Sol.

According to given table , total players participated in both Championship is 3rd highest in 2004

S2. Ans.(c)

Sol.

Required ratio

$$= \frac{2800+4770+3970}{1400+1230+1760}$$

$$= \frac{11540}{4390}$$

$$= 1154 : 439$$

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S3. Ans.(b)

Sol.

Required difference

$$= \left(\frac{2800+4770+3400+3970}{4} \right) - \left(\frac{2200+2430+1400+1230}{4} \right)$$

$$= 3735 - 1815$$

$$= 1920$$

S4. Ans.(e)

Sol.

$$\text{Required difference} = 3400 - 2430 = 970$$

S5. Ans.(a)

Sol.

$$\begin{aligned} \text{Required\%} &= \frac{7200 - 5000}{5000} \times 100 \\ &= \frac{2200}{5000} \times 100 \\ &= 44\% \end{aligned}$$

S (6-10)

Level	Male employees (450)	Female employees (630)
I	75	140
II	68	116
III	116	110
IV	182	184
V	9	80

S6. Ans (b)

Sol.

$$\text{Required number} = 68 + 116 = 184$$

S7. Ans (d)

Sol.

$$\text{Required percentage} = \frac{80}{1080} \times 100 = 7\frac{11}{27}\%$$

S8. Ans (a)

Sol.

$$\text{Required ratio} = \frac{75}{80} = 15 : 16$$

S9. Ans (e)

Sol.

$$\begin{aligned} \text{Total no. of employees at level I, level II and level III} \\ &= 75 + 68 + 116 + 140 + 116 + 110 \\ &= 625 \end{aligned}$$

S10. Ans (b)

Sol. No. of female employee in level II are equal to male employee of level III.

S (11 - 15)

Time taken to cover $\frac{2}{15}$ th of total distance between Delhi to Lucknow = 1 hour 12 minutes = $\frac{6}{5}$ hours

$$\text{Also, } \frac{2P}{15} = \frac{6Q}{5}$$

$$P = 9Q$$

Time taken by Veer to reach 'Dhaba' = $\frac{6}{12} = 30$ minutes

Time at Veer again took bus = 12:47 pm

Distance travel at the speed of $1.25Q = (P - \frac{2P}{15} - 6 - 118) = \frac{(13P-1860)}{15}$ km

Time taken to travel the distance at $1.25Q = 17.47$ pm - 12.47 pm = 5 hours

$$\frac{(13P-1860)}{15} = 1.25Q \times 5$$

$$13P - 1860 = 93.75Q$$

$$117Q - 1860 = 93.75Q$$

$$23.25Q = 1860$$

$$Q = 80 \text{ km/hr}$$

$$P = 9 \times 80 = 720 \text{ km}$$

Since, Lucknow is 118 km away where Veer met to Sameer

$$\text{Speed of Veer} = 12 \times \frac{4}{3} = 16 \text{ km/hr}$$

So, time taken by Veer to reach Lucknow at usual speed = $\frac{118}{16} = 442.5$ minutes

ATQ –

$$(442.5 - \frac{118 \times 60}{R}) = 88.5$$

$$354R = 7080$$

$$R = 20 \text{ km/hr}$$

Time taken by Veer = 20 hours

So, time taken by Sameer = $20 \times 1.2 = 24$ hours

Total work = 120 units (LCM of time taken by Veer & Sameer)

Efficiency of Veer = $120/20 = 6$ units/hour

Efficiency of Sameer = $120/24 = 5$ units/hour

Efficiency of Ayush = 4 units/hour

Time taken by Veer, Sameer & Ayush together (S) = $120/15 = 8$ hours

Wage share of Veer = $21600 \times \frac{6}{15} = 8640$ Rs.

Wage share of Sameer = $21600 \times \frac{5}{15} = 7200$ Rs.

Wage share of Ayush = $21600 \times \frac{4}{15} = 5760$ Rs.

Profit ratio of Veer, Sameer & Ayush = $(8640 \times 2) : (7200 \times 2) : (5760 \times 2)$
 $= 6 : 5 : 4$

Profit share of Veer (T) = $27900 \times \frac{6}{15} = \text{Rs } 11160$

S11. Ans.(b)

Sol.

$$\text{Required ratio} = \frac{80}{720} = 1:9$$

S12. Ans.(d)

Sol.

Q is 4 times of the value of R.

S13. Ans.(e)

Sol.

S=8 hours



S14. Ans.(c)

Sol.

T= Rs 11160

S15. Ans.(b)

Sol.

$$\text{CI received in two years} = \left(11160 \times \frac{150}{100} \times \frac{150}{100}\right) - 11160 = \text{Rs } 13950$$

$$\text{CI received in first year} = 11160 \times \frac{50}{100} = \text{Rs } 5580$$

$$\text{CI received in second year} = \text{Rs } 8370$$

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