

Quiz Date: 2<sup>nd</sup> April 2020

**Direction (1-5):** Given below statistical data of top five wheat producer states of India in the three successive years. Read the data carefully and answer the question given below.

**Year 2015** –Uttar Pradesh and Punjab together produced 15860 thousand ton, while Punjab production was 1180 ton less than that of Uttar Pradesh. Madhya Pradesh produced 25% less than Uttar Pradesh, Haryana produced 690 thousand ton less than that of Madhya Pradesh. Production of Rajasthan was 70% of total production of Haryana.

**Year 2016** –Production of Punjab decreased by 20% compare to previous year, while production of Haryana increased by 800 thousand ton compare to previous year. Madhya Pradesh produced  $33\frac{1}{3}\%$  more than previous year, while Rajasthan produced 2390 thousand ton more wheat than previous year. All five states produced total 36612 thousand ton wheat in 2016.

**Year 2017**– Uttar Pradesh and Haryana together produced 16520 thousand ton, while Uttar Pradesh production was 2840 ton more than that of Haryana. Punjab produced 628 thousand ton more wheat than previous year and Madhya Pradesh produced 360 thousand ton more wheat than previous year. All five states produced total 38200 thousand ton wheat in 2017.

Q1. Total wheat produced by Uttar Pradesh is how much more than total wheat produced by Madhya Pradesh in the all three given years?

- (a) 3550 thousand ton
- (b) 3750 thousand ton
- (c) 3650 thousand ton
- (d) 3250 thousand ton
- (e) 3150 thousand ton

Q2. Total wheat produced by Madhya Pradesh in the year 2016 & 2017 together is what percent more than total wheat produced by Haryana in the year 2015 & 2016 together?

- (a)  $40\frac{38}{61}\%$
- (b)  $44\frac{38}{61}\%$
- (c)  $36\frac{38}{61}\%$
- (d)  $42\frac{38}{61}\%$
- (e)  $48\frac{38}{61}\%$

Q3. Find the difference between average quantity of wheat produced by Uttar Pradesh , Madhya Pradesh and Haryana in the year 2015 and average quantity of wheat produced by Madhya Pradesh, Haryana and Rajasthan in the year 2017?

- (a) 360 thousand ton
- (b) 400 thousand ton
- (c) 420 thousand ton
- (d) 450 thousand ton

(e) 470 thousand ton

Q4. Find the ratio between total wheat produced by Rajasthan & Punjab together in the year 2017 to total wheat produced by Haryana & Rajasthan together in the year 2016?

- (a) 160 : 161
- (b) 150 : 161
- (c) 170 : 171
- (d) 160 : 169
- (e) 160 : 171

Q5. Find the total wheat produced by Rajasthan and Uttar Pradesh in the year 2016 and 2017 together?

- (a) 30700 thousand ton
- (b) 30800 thousand ton
- (c) 31700 thousand ton
- (d) 32400 thousand ton
- (e) 33400 thousand ton

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

Q6.  $326 \times 14 - 12 \times 88 + (49)^2 = ?$

- (a) 5110
- (b) 5909
- (c) 5990
- (d) 6909
- (e) None of these

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Q7.  $6\frac{3}{7}$  of  $266 + 630 = 7985 - ? - 5200$

- (a) 755
- (b) 645
- (c) 445
- (d) 555
- (e) 665

Q8.  $124\sqrt{7} + 876 = \frac{3}{4}$  of  $840 + 742$

- (a) 4
- (b) 16
- (c) 8
- (d) 64
- (e) None of these

Q9.  $70\%$  of 1680 +  $?\%$  of 1750 =  $55\%$  of 2820 - 886

- (a) -36.4
- (b) 34
- (c) -28
- (d) 38
- (e) -29.2

Q10.  $6^3 \times 3^4 \div 9^3 + ?^2 = 7^2$

- (a) 4
- (b) 7
- (c) 5
- (d) 6
- (e) 8

**Directions ( 11 -15) :Study the information carefully and answer the following questions.**

A total of 1650 employees are working in a company in different departments. The ratio of male employees to female employees in the organisation is 86 : 79. There are total 5 departments in the company i.e. Product Development, Sales and marketing, R& D and reinvestment, 'Finance' and HR. Total 198 males work in "Product Development department". 18% employees works in Sales and marketing department, in which male to female ratio is 5 : 4. In Finance department, 77 males are working and the number of females in this department is  $\frac{5}{7}$  of the number of males. The number of males in Sales and marketing department is equal to number of females in Product Development department. The number of males of Finance department is half of the number of males in HR department. Male to female ratio in R& D and reinvestment department is 14 : 19.

Q11. No. of males in R& D and reinvestment department is now much more than females in Product Development department?

- (a) 99
- (b) 91
- (c) 109
- (d) 105
- (e) 101

Q12. Females in R& D and reinvestment department is what percent of total number of females in the company (approximate)?

- (a) 44.7%
- (b) 45.7%

- (c) 48.9%
- (d) 49.2%
- (e) 38.9%

Q13. No. of Females in Finance department is what percent less than the no. of females in Product Development department?

- (a)  $33\frac{1}{3}\%$
- (b)  $66\frac{2}{3}\%$
- (c) 61%
- (d) 70%
- (e) 72%

Q14. What is the difference between no. of male employees of Product Development, Sales and marketing and HR department together and no. of females of Product Development, Finance and R& D and reinvestment department together?

- (a) 54
- (b) 64
- (c) 35
- (d) 96
- (e) 58

Q15. If the  $\frac{5}{12}$  of the females of the Sales and marketing department are shifted in HR department. Then males in HR department is what times of no. of females in the same department. (round off to 2 decimal places).

- (a) 1.07
- (b) 1.17
- (c) 1.27
- (d) 1.37
- (e) 1.32



**Solutions**

**S (1 -5)**

2015 →

Production of wheat in Punjab

$$= \frac{15860 - 1180}{2}$$

$$= 7340 \text{ thousands ton}$$

Production of wheat in Uttar Pradesh

$$= 734 + 1180$$

$$= 8520 \text{ thousands ton}$$

Production of wheat in Madhya Pradesh

$$= 8520 \times \frac{75}{100}$$

$$= 6390 \text{ thousands ton}$$

Production of wheat in Haryana

$$= 6390 - 690$$

$$= 5700 \text{ thousands ton}$$

Production of wheat in Rajasthan

$$= 5700 \times \frac{70}{100}$$

$$= 3990 \text{ thousands ton}$$

2016 →

Production of wheat in Punjab

$$= 7340 \times \frac{80}{100}$$

$$= 5872 \text{ thousands ton}$$

Production of wheat in Haryana

$$= 5700 + 800$$

$$= 6500 \text{ thousands ton}$$

Production of wheat in Madhya Pradesh

$$= 6390 \times \frac{4}{3}$$

$$= 8520 \text{ thousands ton}$$

Production of wheat in Rajasthan

$$= 3990 + 2390$$

$$= 6380 \text{ thousands ton}$$

Production of wheat in Uttar Pradesh

$$= 36612 - (5872 + 6500 + 8520 + 6380)$$

$$= 9340 \text{ thousands ton}$$

2017 →

Production of wheat in Haryana

$$= \frac{16520 - 2840}{2}$$

$$= 6840 \text{ thousands ton}$$

Production of wheat in Uttar Pradesh

$$= 6840 + 2840$$

$$= 9680 \text{ thousands ton}$$

Production of Wheat in Punjab

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$$= 5872 + 628$$

$$= 6500 \text{ thousands ton}$$

Production of wheat in Madhya Pradesh

$$= 8520 + 360$$

$$= 8880 \text{ thousands ton}$$

Production of wheat in Rajasthan

$$= 38200 - (6840 - 9680 + 6500 + 8880)$$

$$= 6300 \text{ thousands ton}$$

| States         | Production of wheat (thousandss ton) |      |      |
|----------------|--------------------------------------|------|------|
|                | 2015                                 | 2016 | 2017 |
| Uttar Pradesh  | 8520                                 | 9340 | 9680 |
| Punjab         | 7340                                 | 5872 | 6500 |
| Madhya Pradesh | 6390                                 | 8520 | 8880 |
| Haryana        | 5700                                 | 6500 | 6840 |
| Rajasthan      | 3990                                 | 6380 | 6300 |

S1. Ans.(b)

Sol.

Total wheat produced by Uttar Pradesh in all three years

$$= 8520 + 9340 + 9680$$

$$= 27540 \text{ thousands ton}$$

Total wheat produced by Madhya Pradesh in all three years

$$= 6390 + 8520 + 8880$$

$$= 23790 \text{ thousands ton}$$

$$\text{Required difference} = 27540 - 23790$$

$$= 3750 \text{ thousands ton}$$

S2. Ans.(d)

Sol.

Total wheat produced by Madhya Pradesh in year 2016 & 2017 together

$$= 8520 + 8880$$

$$= 17400 \text{ thousands ton}$$

Total wheat produced by Haryana in the year 2015 & 2016 together

$$= 5700 + 6500$$

$$= 12200 \text{ thousands ton}$$

$$\text{Required}\% = \frac{17400 - 12200}{12200} \times 100$$

$$= \frac{5200}{12200} \times 100$$

$$= 42 \frac{38}{61}\%$$

S3. Ans.(e)

Sol.

Average quantity of wheat produced by Uttar Pradesh, Madhya Pradesh and Haryana in the year 2015

$$= \frac{8520+6390+5700}{3}$$

$$= \frac{20610}{3}$$

= 6870 thousands ton

Average quantity of wheat produced by Madhya Pradesh, Haryana and Rajasthan in the year 2017

$$= \frac{6840+6300+8880}{3}$$

$$= \frac{22020}{3}$$

= 7340 thousands ton

Required difference = 7340 - 6870 = 470 thousands ton

S4. Ans.(a)

Sol.

$$\text{Required ratio} = \frac{6300+6500}{6500+6380}$$

$$= \frac{12800}{12880}$$

= 160 : 161



S5. Ans.(c)

Sol.

Total Wheat produced by Rajasthan and Uttar Pradesh in the year 2016 & 2017 together

$$= (9340 + 6380) + (9680 + 6300)$$

= 31700 thousands ton

S6. Ans.(b)

Sol.

$$? = 326 \times 14 - 12 \times 88 + (49)^2$$

$$= 4564 - 1056 + 2401$$

$$= 6965 - 1056 = 5909$$

S7. Ans.(c)

Sol.

$$\frac{45}{7} \times 266 + 630 = 7985 - ? - 5200$$

$$\text{or, } 1710 + 630 = 7985 - ? - 5200$$

$$\therefore ? = 2785 - 2340 = 445$$

S8. Ans.(b)

Sol.

$$124\sqrt{?} + 876 = \frac{3}{4} \text{ of } 840 + 742$$

$$\text{or } 124\sqrt{?} + 876 = 630 + 742$$

$$\text{or } 124\sqrt{?} = 1372 - 876$$

$$\text{or, } \sqrt{?} = \frac{496}{124} = 4$$

$$\therefore ? = 4^2 = 16$$

S9. Ans.(e)

Sol.

$$70\% \text{ of } 1680 + \frac{?}{100} \text{ of } 1750$$

$$= 55\% \text{ of } 2820 - 886$$

$$\text{or, } \frac{70}{100} \times 1680 + \frac{?}{100} \times 1750 = \frac{55}{100} \times 2820 - 886$$

$$\text{or, } 1176 + 17.5 \times ? = 1551 - 886 = 665$$

$$\text{or, } 17.5 \times ? = 665 - 1176$$

$$\therefore ? = \frac{-511}{17.5} = -29.2$$

S10. Ans.(c)

Sol.

$$6^3 \times 3^4 \div 9^3 + (?)^2 = 7^2$$

$$\text{or, } 216 \times \frac{81}{729} + (?)^2 = 7^2$$

$$\text{or, } 24 + (?)^2 = 7^2$$

$$\text{or, } (?)^2 = 49 - 24 = 25$$

$$? = \pm 5$$

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**S (11 - 15) :**

$$\text{Males in company} = \frac{86}{79+86} \times 1650 = 860$$

$$\text{Females in company} = 1650 - 860 = 790$$

$$\text{Males in Product development department} = 198$$

$$\text{Employees in Sales and marketing department} = \frac{18}{100} \times 1650 = 297$$

$$\text{Males in Sales and marketing department} = \frac{5}{9} \times 297 = 165$$

$$\text{Females in Sales and marketing department} = 132$$

$$\text{Males in finance department} = 77$$

$$\text{Females in Finance department} = \frac{5}{7} \times 77 = 55$$

$$\text{Females in Product development department} = 165$$

$$\text{Males in HR department} = 77 \times 2 = 154$$

$$\text{Males in R\&D and reinvestment department} = 860 - (198+165+77+154) = 266$$

$$\text{Females in R\&D and reinvestment department} = \frac{19}{14} \times 266 = 361$$

$$\text{Females in HR department} = 790 - (132 + 55 + 165 + 361) = 77$$



S11. Ans.(e)

Sol.

$$\text{required difference} = 266 - 165 = 101$$

S12. Ans.(b)

Sol.

$$\text{required percentage} = \frac{361}{790} \times 100 \approx 45.7\%$$

S13. Ans.(b)

Sol.

$$\text{required percentage} = \frac{165-55}{165} \times 100 = 66\frac{2}{3}\%$$

S14. Ans.(b)

Sol.

no. of males in Product development, Sales and marketing and HR departments =  $198 + 165 + 154 = 517$

No. of females in Product development, finance and R&D and reinvestment department =  $361 + 55 + 165 = 581$

Difference = 64

S15. Ans.(b)

Sol.

females shifted from Sales and marketing

$$\text{Department} = \frac{5}{12} \times 132 = 55$$

$$\text{Females in HR department} = 77 + 55 = 132$$

$$\text{Males in HR department} = 154$$

Required ratio =

$$\frac{154}{132} = 1.17$$

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