

Quiz Date: 28<sup>th</sup> February 2020

**Directions (1-5):** What approximate value should come in the place of the question mark(?) in the following questions? (You are not expected to calculate the exact value.)

Q1.  $19.9\%$  of  $519.98 - 14\frac{2}{7}\%$  of  $342.98 = ?$

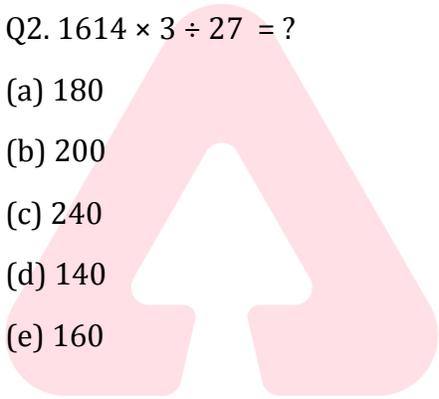
- (a) 50
- (b) 55
- (c) 35
- (d) 30
- (e) 60

Q2.  $1614 \times 3 \div 27 = ?$

- (a) 180
- (b) 200
- (c) 240
- (d) 140
- (e) 160



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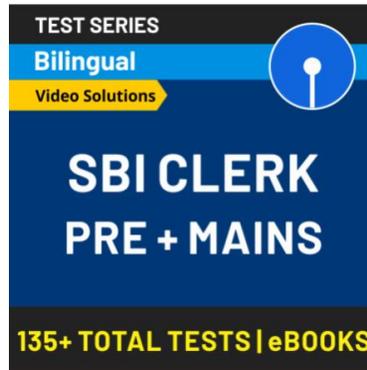
Q3.  $(3.499)^2 \times (3.99)^2 = ?$

- (a) 196
- (b) 200
- (c) 235
- (d) 120
- (e) 133

Q4.  $\sqrt{2600.98} + \sqrt{36} + 3 = ?$

- (a) 55
- (b) 65

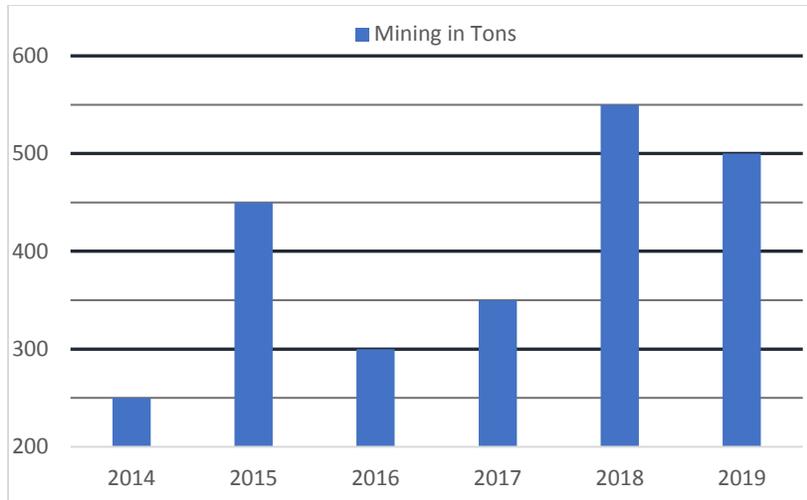
- (c) 52
- (d) 58
- (e) 60



Q5.  $14\frac{2}{7}\%$  of  $33\frac{1}{3}\%$  of  $16\frac{2}{3}\%$  of 252.04

- (a) 5
- (b) 1
- (c) 4
- (d) 2
- (e) 6

**Directions (6-10) :-** The bar graph given below show the mining of coal (in tons) in Jharkhand during Six different years. Study the graph carefully and answer the following questions.



Q6. Coal Mining in Jharkhand in 2016 is what percent of that of in 2017 and 2018 together?

- (a) 30%
- (b) 45%
- (c)  $33\frac{1}{3}\%$
- (d) 25%
- (e)  $14\frac{2}{7}\%$

Q7. Find the average Coal Mining in Jharkhand during 2014 to 2019?

- (a) 333 ton
- (b) 375 ton
- (c) 395 ton
- (d) 400 ton
- (e) 465 ton

Q8. If it is predicted that the mining of coal in Jharkhand in 2020 will be 20% more than that of average of 2016, 2017 and 2018 then, what will be the coal mining in Jharkhand in 2020?

- (a) 480 tons
- (b) 400 tons
- (c) 420 tons
- (d) 380 tons
- (e) 520 tons

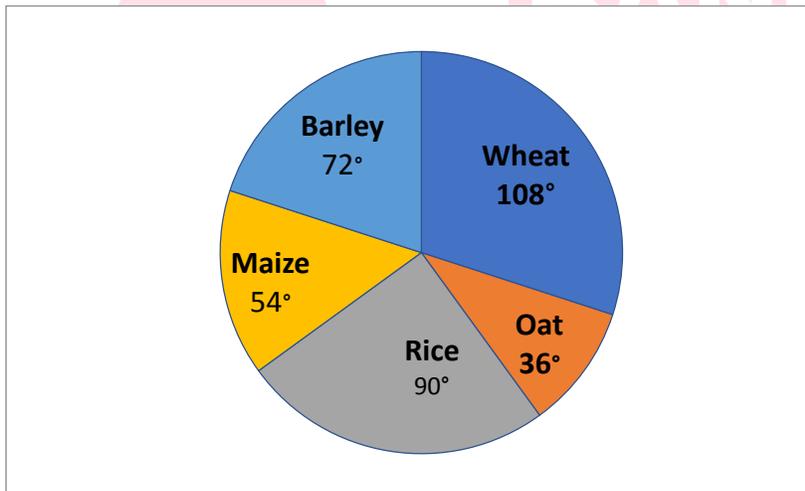
Q9. What is the ratio of coal mining in 2015 and 2016 together to that of in 2014 and 2018 together?

- (a) 16 : 15
- (b) 15 : 16
- (c) 7 : 9
- (d) 9 : 7
- (e) 15 : 19

Q10. According to question number 8, the mining in 2020 will be what percentage more or less than that of in 2019?

- (a) 10%
- (b) 12%
- (c) 5%
- (d) 2.5%
- (e) 4%

**Directions (11-15):-** The given pie chart shows the distribution (in degree) of 5 different types of Grain over the year. Study the graph carefully and answer the following questions.



**Total production of Grains = 12000 kg.**

Q11. What will be the difference between the average of production of Rice and Maize and that of Barley and Oat?

- (a) 480 tons
- (b) 600 tons
- (c) 520 tons

- (d) 420 tons
- (e) 560 tons

Q12. Find the ratio of production of Barley and Wheat together to that of Maize and Oat together?

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

Q13. If next year the production of grains would be 10% more than the current year then find the average production of Rice and Wheat in next year?

- (a) 4760 kg
- (b) 4670 kg
- (c) 4370 kg
- (d) 3524 kg
- (e) 3630 kg

Q14. Production of Rice is what percent more or less than that of Wheat?

- (a)  $16\frac{2}{3}\%$
- (b) 20%
- (c) 32%
- (d) 24%
- (e)  $14\frac{2}{7}\%$

Q15. On a certain year the production distribution of pie chart was same as that of current year but it is found that the production of Oat is 130 kg then what will be production of Rice in the same year?

- (a) 425 kg
- (b) 285 kg
- (c) 405 kg
- (d) 325 kg
- (e) 375 kg

**Solutions**

S1. Ans.(b)

Sol.

$$? \approx \frac{20}{100} \times 520 - \frac{100}{700} \times 343$$

$$? \approx 104 - 49$$

$$? \approx 55$$



S2. Ans.(a)

Sol.

$$? = \frac{1614}{27} \times 3$$
$$= \frac{1614}{9} = 179.33$$

$$? \approx 180$$

S3. Ans.(a)

Sol.

$$? \approx (3.5 \times 4)^2$$

$$? \approx 14^2$$

$$? \approx 196$$

S4. Ans.(e)

Sol.

$$? \approx \sqrt{2601} + \sqrt{36} + 3$$

$$? \approx 51 + 6 + 3$$

$$? \approx 60$$

S5. Ans.(d)

Sol.

$$? \approx \frac{1}{7} \times \frac{1}{3} \times \frac{1}{6} \times 252$$

$$? \approx 2$$

S6. Ans. (c)

Sol.

$$\text{Required percentage} = \frac{300}{350+550} \times 100 = 33\frac{1}{3}\%$$

S7. Ans. (d)

Sol.

$$\text{Required average} = \frac{250+450+300+350+550+500}{6}$$

$$= 400 \text{ tons}$$

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S8. Ans. (a)

Sol.

$$\text{Average of coal mining in 2016, 2017 and 2018} = \frac{300+350+550}{3}$$

$$= 400 \text{ tons}$$

$$\text{So, Required quantity} = 400 \times \frac{120}{100} = 480 \text{ tons.}$$

S9. Ans. (b)

Sol.

$$\text{Required ratio} = 450+300:250+550$$

$$= 750:800$$

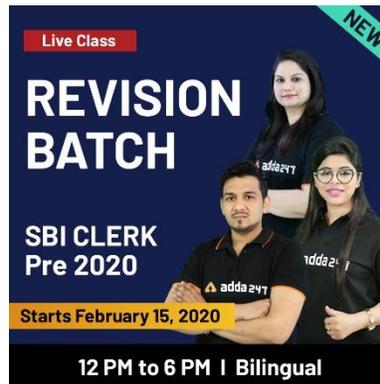
$$=15:16$$

S10. Ans. (e)

Sol.

$$\text{Required percentage} = \frac{500-480}{500} \times 100$$

$$=4\%$$



S11. Ans. (b)

Sol.

$$\text{Average of Rice and Maize production} = \frac{90+54}{2} = 72^\circ$$

$$\text{And Average of Barley and Oat production} = \frac{72+36}{2} = 54^\circ$$

$$\text{Required difference} = \frac{18}{360} \times 12000 = 600$$

S12. Ans. (c)

Sol.

$$\text{Required ratio} = 72+108 : 54+36$$

$$= 2 : 1$$

S13. Ans. (e)

Sol.

Current year Average production of Wheat and Rice =  $\frac{108^\circ + 90^\circ}{2} = 99^\circ$

$$\begin{aligned}\text{So, required average} &= 99^\circ \times \frac{1}{360} \times \frac{110}{100} \times 12000 \\ &= 3630 \text{ kg.}\end{aligned}$$

S14. Ans. (a)

Sol.

$$\begin{aligned}\text{Required percentage} &= \frac{108-90}{108} \times 100 \\ &= 16\frac{2}{3}\%\end{aligned}$$

S15. Ans. (d)

Sol.

$$\begin{aligned}\text{Required production} &= \frac{90}{36} \times 130 \\ &= 325 \text{ kg.}\end{aligned}$$

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