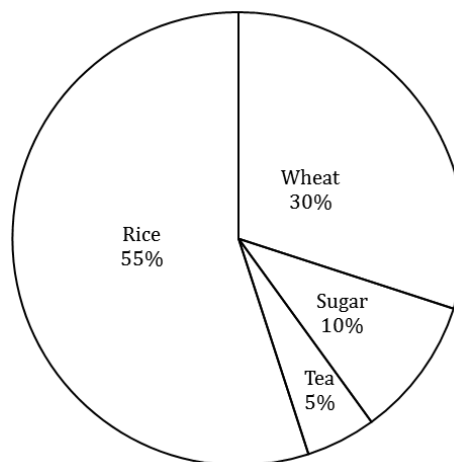


**MEMORY BASED QUESTIONS ASKED IN SSC CGL 2016**

- Q1. The difference between S.I. & C.I. for two year on a sum of 1500 is 960. Then find the rate of interest.  
(a) 80 (b) 60  
(c) 30 (d) 20
- Q2. The profit on selling an article at 78 Rs. is double of the profit when the same article sold at 69 Rs. Then find the cost price of the article?  
(a) 59 (b) 60  
(c) 65 (d) 48
- Q3. Rs. 550 is distributed among A, B & C for a work. Find the C's share if A and B together do the 7/11 of that work.  
(a) 200 (b) 300  
(c) 159 (d) 350
- Q4. If  $\sin\theta + \operatorname{cosec}\theta = 2$   
Then find the value of  $\sin^{-7}\theta + \operatorname{cosec}^7\theta = ?$   
(a) 2 (b) 3  
(c) 1 (d) 4
- Q5. If  $a + b + c = 0$ , then the value of  $\frac{3(a+b)(b+c)(c+a)}{abc}$  is  
(a) -3 (b) -1  
(c) 1 (d) 3
- Q6.  $2y \cos\theta = x \sin\theta$   
 $2x \sec\theta - y \operatorname{cosec}\theta = 3$   
Then find  $x^2 + 4y^2 = ?$   
(a) 2 (b) 4  
(c) 0 (d) 1
- Q7. If  $a^2 + 1 = a$   
Then find  $a^3 = ?$   
(a) -1 (b) -2  
(c) 1 (d) 0
- Q8. The average age of the students of a class is "a". If 10 students left the class whose average age is "b" and the average age of remaining students is "c", then find the total number of students in the class?  
(a)  $\frac{10(b-c)}{(a-c)}$  (b)  $\frac{b-c}{(c-a)}$   
(c)  $\frac{(b-c)}{10(c-b)}$  (d)  $\frac{10(b+c)}{(a-c)}$
- Q9. A 240 m long train crosses a signal pole in 16 sec. then find the speed of the train?  
(a) 45 km/hr (b) 54 km/hr  
(c) 63 km/hr (d) 36 km/hr
- Q10. The marked price of an article is 500 Rs. Find the selling price of this article after two successive discount of 10% each?  
(a) 360 (b) 400  
(c) 405 (d) 415
- Q11. Which is the smallest square number of six digits?  
(a) 100225 (b) 100000  
(c) 100489 (d) 100445
- Q12. The total number of heads count of cow and hen is 50, and their legs are 142. Find the number of cows?  
(a) 23 (b) 31  
(c) 29 (d) 21
- Q13. If  $x + 3y = y - 3x$   
Then find  $\frac{x^2}{2y^2} = ?$   
(a) 1 (b)  $\frac{1}{8}$   
(c)  $-\frac{1}{4}$  (d)  $-\frac{1}{2}$
- Q14. Find the value of  $\frac{3\sqrt{7}}{\sqrt{5}+\sqrt{2}} - \frac{5\sqrt{5}}{\sqrt{7}+\sqrt{2}} + \frac{2\sqrt{2}}{\sqrt{7}+\sqrt{5}} = ?$   
(a) 1 (b)  $\frac{8(\sqrt{7}-\sqrt{5})}{\sqrt{7}+\sqrt{11}}$   
(c) 0 (d) -1
- Q15. In a triangle ABC, D is a point on AB. If D is join with C then CD is a perpendicular on AB. If P and Q are the mid-point of AB and BC then find the length of PQ.  
(a) 5 (b) 10  
(c) 6 (d) 8
- Q16. In a village 574 people are belong to the category of below poverty line. Find the total population of the village if 41% are below the poverty line.  
(a) 1500 (b) 1550  
(c) 1470 (d) 1400
- For questions (17-20):** The given pipe chart gives the details of the production of four different commodities (wheat, sugar, Tea & Rice) In a given year.



Q17. Find the ratio of total of production of wheat and sugar and the difference of production of rice and tea.

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

Q18. The production of Rice and tea together is what percent more than the production of wheat?

- (a) 50%                      (b) 60%  
(c) 100%                      (d) 40%

Q19. Find the central angle made by wheat production?

- (a)  $108^\circ$                       (b)  $96^\circ$   
(c)  $30^\circ$                       (d)  $120^\circ$

Q20. If the total production is 5,00,000, then the production of Rice is -

- (a) 2,00,000                      (b) 2,25,000  
(c) 2,75,000                      (d) 3,00,000

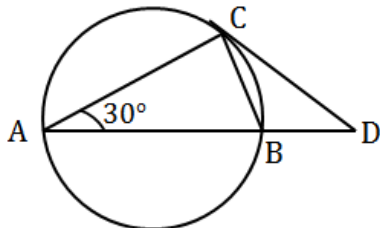
Q21. The radius of two concentric circles are 8 cm and 17 cm. Then find the chord of the outer circle which touches the inner circle

- (a) 15                      (b) 30  
(c) 18                      (d) 19

Q22. The height of a pole is 15 fit and the length of the image is  $\frac{15}{\sqrt{5}}$  fit, then find the elevation angle of sun.

- (a)  $75^\circ$                       (b)  $45^\circ$   
(c)  $30^\circ$                       (d)  $60^\circ$

Q23. AB is the diameter and AC is a chord of a circle and  $\angle BAC = 30^\circ$  which of the statements is correct?



- (a)  $BC < BD$                       (b)  $BC < BD$   
(c)  $BC = BD$                       (d) Cannot say

Q24. Janardan completes  $\frac{2}{3}$  of his work in 10 days.

Time he will take to complete  $\frac{3}{5}$  of the same work, is

- (a) 4 days                      (b) 8 days  
(c) 6 days                      (d) 9 days

Q25. A and B together can do a given piece of work in 8 days, B and C can do the same work in 12 days and A, B, C complete it in 6 days. Number of days required to finish the work by A and C is

- (a) 24 days                      (b) 8 days  
(c) 16 days                      (d) 12 days