

Mathematics Mega Quiz RRB NTPC 05.01.2020

**Q1. A home theatre set is marked at Rs. 4950. If two successive discounts of 20% and 15% are given, then its selling price is?**

- (a) Rs. 3366
- (b) Rs. 6633
- (c) Rs. 3636
- (d) Rs. 6363

**Q2. If 15% of x is three times of 10% of y, then x : y =**

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

**Q3. A gun is fired at a distance of 6.64 km away from Ram. He hears the sound 20 seconds later. Then the speed of sound is?**

- (a) 664 m/s
- (b) 664 km/s
- (c) 332 m/s
- (d) 332 km/s

**Q4. Given that  $\tan(\theta + 15^\circ) = \sqrt{3}$ . Then the value of  $\theta$  is?**

- (a)  $15^\circ$
- (b)  $75^\circ$
- (c)  $45^\circ$
- (d)  $65^\circ$

**Q5. The difference between the greatest and least five digit numbers formed by the digits 2, 5, 0, 6, 8 is (repetition of digits are not allowed)**

- (a) 69552
- (b) 65925
- (c) 65952
- (d) 63952

12 Months Subscription

**SSC CHSL**

**KA MAHA PACK**

Live Class, Video Course,  
Test Series, eBooks

**Bilingual (with eBooks)**

**Q6. Twenty women can do a work in sixteen days. Sixteen men can complete the same work in fifteen days. The ratio between the capacity of a man and a woman is:**

- (a) 3 : 4
- (b) 4 : 3
- (c) 5 : 3
- (d) 5 : 7

**Q7. The product of two positive integers is 2048 and one of them is twice the other . Then the smaller number is:**

- (a) 32
- (b) 64
- (c) 16
- (d) 1024

**Q8. The diagonal of a cuboid of length 5 cm, width 4 cm and height 3 cm is:**

- (a)  $5\sqrt{2}$  cm
- (b)  $2\sqrt{5}$  cm
- (c) 12 cm
- (d) 10 cm

**Q9.** If  $p^2 + q^2 = 7pq$ , Then the value of  $\frac{p}{q} + \frac{q}{p}$  is equal to:

- (a) 9
- (b) 5
- (c) 7
- (d) 3

**Q10. In case of an acute angled triangle, its orthocentre lies**

- (a) inside the triangle
- (b) outside the triangle
- (c) on the triangle
- (d) on one of the vertex of the triangle

**Q11. The length of the two parallel sides of a trapezium are 16 m and 20 m respectively. If its height is 10 m, its area in square metres is?**

- (a) 360
- (b) 260
- (c) 240
- (d) 180

**Q12. A discount series of 15%, 20% and 25% is equal to the single discount of?**

- (a) 48%
- (b) 49%
- (c) 50%
- (d) 51%

Q13. The value of  $(d^{s+t} \div d^s) \div d^t$  would be?

- (a)  $d^{2(s+t)}$
- (b) 1
- (c) 0
- (d)  $d^{s-t}$

Q14. Possible measures of three angles of a triangle are?

- (a)  $33^\circ, 42^\circ, 115^\circ$
- (b)  $40^\circ, 70^\circ, 80^\circ$
- (c)  $30^\circ, 60^\circ, 100^\circ$
- (d)  $50^\circ, 60^\circ, 70^\circ$

Q15. If in a triangle ABC,  $\sin A = \cos B$  then the value of  $\cos C$  is:

- (a)  $\frac{\sqrt{3}}{2}$
- (b) 0
- (c) 1
- (d)  $\frac{1}{\sqrt{2}}$

Q16. A sphere of radius 5 cm is melted to form a cone with base of same radius. The height (in cm) of the cone is:

- (a) 5
- (b) 10
- (c) 20
- (d) 22

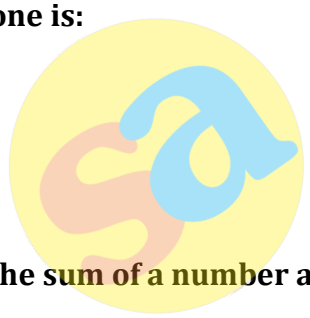
Q17. If the sum of a number and its reciprocal be 2, then the number is

- (a) 0
- (b) 1
- (c) -1
- (d) 2

Q18. The area of a rectangle is  $60 \text{ cm}^2$  and its perimeter is 34 cm, then the length of the diagonal is:

- (a) 17 cm
- (b) 11 cm
- (c) 15 cm
- (d) 13 cm

SSCadda.com



TEST SERIES	
Bilingual	
<b>SSC CHSL 2019-20</b>	
<b>PRIME</b>	
<b>250+ TOTAL TESTS</b>	
Validity : 12 Months	

**Q19. A moving train passes a platform 50m long in 14 seconds and a lamp post in 10 seconds. The speed of the train (in km/h) is:**

- (a) 24
- (b) 36
- (c) 40
- (d) 45

**Q20. An angle in a semicircle is:**

- (a)  $45^\circ$
- (b)  $60^\circ$
- (c)  $90^\circ$
- (d)  $120^\circ$

**Q21. If  $a + b = 5$  and  $a - b = 3$ , then the value of  $(a^2 + b^2)$  is:**

- (a) 17
- (b) 18
- (c) 19
- (d) 20

**Q22. The point equidistant from the sides of a triangle is called**

- (a) Circumcenter
- (b) Incentre
- (c) Orthocentre
- (d) Centroid

**Q23. The value of  $\operatorname{cosec}^2 60^\circ + \sec^2 60^\circ - \cot^2 60^\circ + \tan^2 30^\circ$  will be**

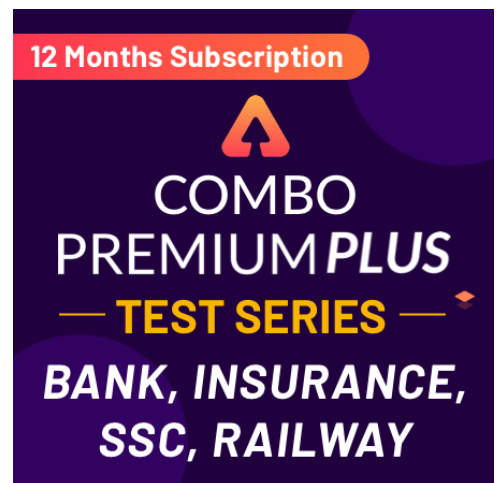
- (a) 5
- (b)  $5\frac{1}{2}$
- (c)  $5\frac{1}{3}$
- (d)  $5\frac{2}{3}$

**Q24. In a  $\Delta ABC$ , if  $4\angle A = 3\angle B = 12\angle C$ , find  $\angle A$**

- (a)  $22.5^\circ$
- (b)  $90^\circ$
- (c)  $67.5^\circ$
- (d)  $112.5^\circ$

**Q25. The average height of 30 boys out of a class of 50 is 160 cm. If the average height of the remaining boys is 165 cm, the average height of the whole class (in cm) is:**

- (a) 161
- (b) 162
- (c) 163
- (d) 164



12 Months Subscription

COMBO  
PREMIUM PLUS  
— TEST SERIES —  
BANK, INSURANCE,  
SSC, RAILWAY