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## **SSC CHSL (Tier - 1) Online Exam Paper - 2018 "held on 08 JULY 2019"**

### **Evening-Shift (Quantitative Aptitude)**

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**Q1. If each side of a rectangle is decreased by 13%, then its area will decrease by:**

- 1. 21.69%
- 2. 26%
- 3. 13%
- 4. 24.31%

**Correct answer: 24.31%**

**Q2. The average age of fifteen persons is 32 years. If two more persons are added then the average is increased by 3 years.**

**The new persons have an age difference of 9 years between them. The age (in years) of the elder among the new persons is:**

Options:

1. 58
2. 50
3. 53
4. 62

**Correct answer: 62**

**Q3. The compound interest on a certain sum of money at 21% for 2 years is 29,282. Its simple interest (in Rs) at the same rate and for the same period is:**

Options:

1. 8,400
2. 8,000
3. 8,750
4. 8,500

**Correct answer: 8,400**

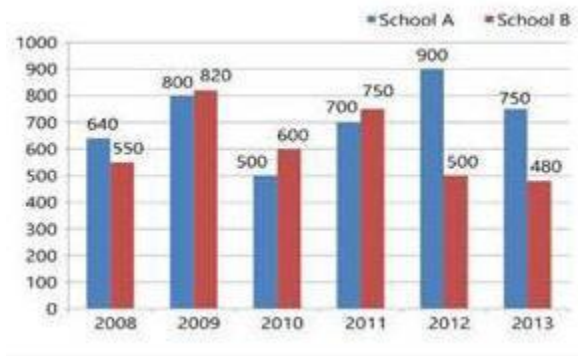
**Q4. If  $\cos x = -\sqrt{3}/2$  and  $\pi < x < 3\pi/2$ , then the value of  $2\cot^2 x - 3\sec^2 x$  is:**

Options:

1. 4
2. 2
3. 8
4. 6

**Correct answer: 2**

**Q5. The given Bar Graph presents the number of students of two school for six years.**



**what is the average (Correct to two decimal places) of total students in schools A and B taken together during the six year period ?**

Options:

1. 1331.67
2. 1133.57
3. 1221.67
4. 1122.57

**Correct answer: 1331.67**

**Q6. If  $x^4 + x^{-4} = 47, (x > 0)$ , then the value of  $(2x-3)^2$  is:**

Options:

1. 5
2. 3
3. 4
4. 2

**Correct answer: 5**

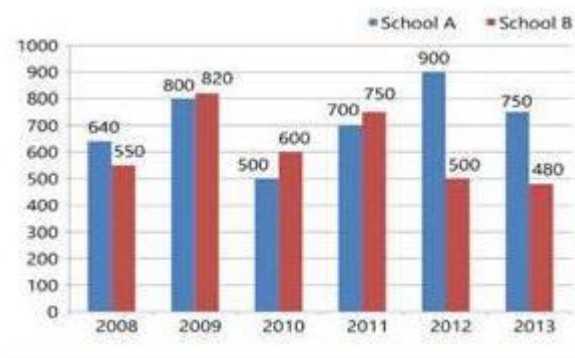
**Q 7. A earns Rs.640 per day and works for 8 hours. B earns Rs.360 per day and works for 6 hours. The ratio of per day wages of A to that of B is:**

Options:

1. 5:4
2. 16:9
3. 9:16
4. 4:5

**Correct answer: 16:9**

**Q8. The given Bar Graph presents the number of students of two school for six years.**



**In which year, the percentage increase in the number of total students in schools A and B taken together is the highest in comparison to its previous year?**

Options:

1. 2009
2. 2012
3. 2010
4. 2011

**Correct answer: 2009**

**Q9. The distance between the centres of two circles of radius 3 cm and 2 cm is 13 cm. The length (in cm) of a transverse common tangent is:**

Options:

1. 10
2. 6

- 3. 12
- 4. 8

**Correct answer: 12**

**Q10. A and B can complete a piece of work in 15 days and 10 days respectively. They got a contract to complete the work for Rs.75000. The share of B (in Rs) in the contracted money will be:**

Options:

- 1. 40,000
- 2. 35,000
- 3. 30,000
- 4. 45,000

**Correct answer: 45,000**

**Q11. Let  $\angle ABC \sim \angle PQR$  and  $\ar(\angle ABC) / \ar(\angle PQR) = 4/25$ . If  $AB = 12$  cm,  $BC = 8$  cm and  $AC = 9$  cm, then  $PR$  is equal to:**

Options:

- 1. 18
- 2. 17.5
- 3. 15
- 4. 20

**Correct answer: 20**

**Q12. The sum of the salaries of A and B together is Rs 45000. A spends 85% of his salary and B, 70% of his salary. If now their savings are the same, what is B's salary (in Rs)?**

Options:

- 1. 12,600
- 2. 30,000
- 3. 18,000
- 4. 15,000

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**Correct answer: 15,000**

**Q13. In  $\triangle ABC$ , the bisectors of  $\angle B$  and  $\angle C$  meet at  $O$ , inside the triangle. If  $\angle BOC = 106^\circ$ , then the measure of  $\angle A$  is:**

Options:

1.  $84^\circ$
2.  $106^\circ$
3.  $32^\circ$
4.  $16^\circ$

**Correct answer:  $32^\circ$**

**Q14. The ratio between the speeds of two trains is  $2 : 5$ . If the first train runs 350 km in 5 h, then the difference between the speeds (in km/h) of both the trains is:**

Options:

1. 305
2. 105
3. 180
4. 165

**Correct answer: 105**

**Q15.  $PA$  and  $PB$  are the tangents to a circle with centre  $O$ , from a point  $P$  outside the circle.  $A$  and  $B$  are the points on the circle. If  $\angle APB = 72^\circ$ , then  $\angle OAB$  is equal to:**

Options:

1.  $18^\circ$
2.  $36^\circ$
3.  $72^\circ$
4.  $24^\circ$

**Correct answer:  $36^\circ$**

**Q16. If  $a^3 + b^3 = 1344$  and  $a + b = 28$ , then  $(a + b)^2 - 3ab$  is equal to:**

Options:

1. 32
2. 16
3. 48
4. 24

**Correct answer: 48**

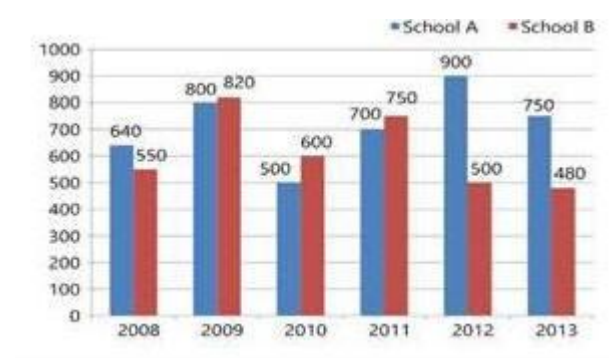
**Q17. If  $4(\operatorname{cosec}^2 65^\circ - \tan^2 25^\circ) - \sin 90^\circ - \tan^2 63^\circ y \tan^2 27^\circ = x$  then the value of y is:**

Options:

1.  $-1/2$
2. -1
3. 2
4. 1

**Correct answer: 2**

**Q18. The given Bar Graph presents the number of students of two school for six years.**



**What is the ratio of the number of students taken together for the year 2008, 2012 and 2013 in school A to the number of students taken students taken together for the year 2008, 2012 and 2013 in school B ?**



Options:

1. 153:229
2. 229:153
3. 117:101
4. 101:117

**Correct answer: 229:153**

**Q 19. If  $\cot \theta = 5x$  and  $\operatorname{cosec} \theta = 5/x$  ( $x \neq 0$ ), then the value of  $5(x^2 - 1/x^2)$  is :**

Options:

1.  $1/5$
2.  $1/2$
3.  $-1/4$
4.  $-1/5$

**Correct answer:  $-1/5$**

**Q20. If  $x = 2 + \sqrt{5}$  then the value of  $(x^3 - x^{-3})$  is :**

Options:

1. -76
2. 76
3. -52
4. 52

**Correct answer: 76**

**Q21. A dealer buys an article marked at Rs.20000 with two successive discounts of 20% and 5%. He spends Rs.1800 for its repair and sells it for Rs.20000. What is his profit/loss percent (correct to two decimal places) ?**

Options:

1. 76.65% loss
2. 17.65% profit
3. 23.46% profit
4. 23.64% loss

**Correct answer: 17.65% profit**

**Q22. A man bought three articles for Rs. 3,000 each. He sold the articles respectively at 10% profit, 5% profit and 15% loss.**

**The total percentage profit/loss he earned is:**

Options:

1. 10% loss
2. 5% loss
3. No profit no loss
4. 5% profit

**Correct answer: No profit no loss**

**Q23. If the seven digit number  $54x29y6$  ( $x > y$ ) is divisible by 72, what is the value of  $(2x + 3y)$ ?**

Options:

1. 38
2. 23
3. 32
4. 13

**Correct answer: 23**

**Q24. The simplified value of  $46\frac{3}{4}$  of  $32\frac{6}{7}$  /  $37\frac{3}{4}$  of  $(34\frac{6}{7})$  is:**

Options:

1. 1
2.  $\frac{19}{64}$
3.  $\frac{19}{16}$
4. 2

**Correct answer: 1**

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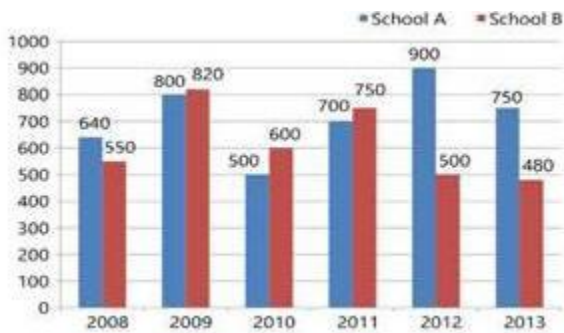
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**Q 25. The given Bar Graph presents the number of students of two school for six years.**



**In which year the sum of the students in two schools is the highest ?**

Options:

1. 2011
2. 2012
3. 2008
4. 2009

**Correct answer: 2009**



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