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**SSC CGL 2019 EXAM PAPER : Held on 06-March-2020  
Shift-2 (Mathematics)**

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**Q1. The following table shows the daily earnings of 45 skilled workers.**

Earnings	700 to 800	800 to 900	900 to 1000	1000 to 1100	1100 to 1200	1200 to 1300
Number of Workers	4	15	10	10	4	2

**How many workers earn less than 1100 in a day?**

- a. 29
- b. 10
- c. 43
- d. 39

**Correct Answer: 39**

**Q2. The largest number which should replace \* in the number 2365\*4 to make the number divisible by 4 is:**

- a. 0
- b. 8
- c. 2
- d. 9

**Correct Answer: 8**

**Q3. In a school, 4% of the students did not appear for the annual exams. 10% of the students who appeared for the exams could not pass the exam. Out of the remaining students, 50% got distinction marks and 432 students passed the exam but could not get distinction marks. The total number of students in the school is:**

- a. 1200
- b. 878
- c. 1000
- d. 960

**Correct Answer: 1200**

**Q4. Amit borrowed a sum of Rs. 25000 on simple interest. Bhola borrowed the same amount on compound interest. At the end of 2 years, Bhole had to pay 160 more interest than Amit. The rate of interest charged per annum is:**

- a. 8%
- b. 9%
- c. 12%
- d. 16%

**Correct Answer: 8%**

**Q5. 24 students collected money for donation. The average contribution was 50. Later on, their teacher also contributed some money. Now the average contribution is 56. The teacher's contribution is:**

- a. 194
- b. 200
- c. 66
- d. 106

**Correct Answer:** 200

**Q6. Solve the following.**

$$4/3 \div 1/6 \times 2 - 1 = ?$$

- a. 15
- b. 3
- c. 8
- d. -2

**Correct Answer:** 15

**Q7. If  $[\cos^2\Theta - 1][1 + \tan^2\Theta] + 2\tan^2\Theta = 1$ ,  $0^\circ < \Theta < 90^\circ$  then  $\Theta$  is:**

- a.  $60^\circ$
- b.  $45^\circ$
- c.  $90^\circ$
- d.  $30^\circ$

**Correct Answer:**  $45^\circ$

**Q8. The coefficient of x in  $[x - 3y]^3$  is:**

- a.  $-3y^2$
- b.  $3y^2$
- c.  $27y^2$
- d.  $-27y^2$

**Correct Answer:**  $27y^2$

**Q9. Amit and Sunil together can complete a work in 9 days, Sunil and Dinesh together can complete the same work in 12 days, and Amit and Dinesh together can complete the same work in 18 days. In how many days will they complete the work if Amit, Sunil and Dinesh work together?**

- a. 8 days
- b. 16 days
- c. 14 days
- d. 12 days

**Correct Answer:** 8 days

**Q10. A manufacturer sells cooking gas stoves to shopkeepers at 10% profit, and in turn they sell the cooking gas stoves to customer to earn 15% profit. If a customer gets a cooking gas stove for 7590, then what is its manufacturing cost?**

- a. 6000
- b. 5000
- c. 5090
- d. 6500

**Correct Answer:** 6000

**Q11. Two cyclists X and Y start at the same time from place A and go towards place B at a speed of 6 km/hr and 8 km/hr, respectively. Despite stopping for 15 minutes during the journey, Y reaches 10 minutes earlier than X. The distance between the places A and B is:**

- a. 16.5 km
- b. 10 km
- c. 6 km
- d. 8 km

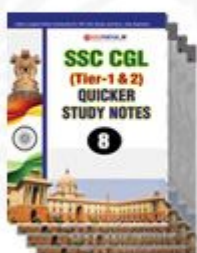
**Correct Answer:** 10 km

**Q12. Solve the following  $113 \times 87 = ?$**

- a. 10000
- b. 9831
- c. 10169
- d. 10026

**Correct Answer:** 9831

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**Q13. Solve the following.  $\sin 0^\circ \sin 30^\circ \sin 45^\circ \sin 60^\circ \sin 90^\circ = ?$**

- a. 1
- b.  $1/6$
- c. 4
- d. 0

**Correct Answer: 0**

**Q14. During a medical check-up, the heights of 40 students in a class were recorded as shown in the following table.**

Height [in cm]	less than 175	less than 170	less than 165	less than 160	less than 155	less than 150
Number of students	40	35	25	16	8	4

**How many students have a height of 165 cm or more?**

- a. 16
- b. 25
- c. 10
- d. 15

**Correct Answer: 15**

**Q15. The lengths of the diagonals of a rhombus are 16cm and 12cm. Its area is:**

- a.  $96 \text{ cm}^2$
- b.  $48 \text{ cm}^2$
- c.  $69 \text{ cm}^2$
- d.  $28 \text{ cm}^2$

**Correct Answer:  $96 \text{ cm}^2$**

**Q16. In a wallet, there are notes of the denominations 10 and 50. The total number of notes is 12. The number of 10 and 50 notes are in the ratio of 1 : 2. Total money in the wallet is:**

- a.
- b.
- c.
- d.

**Correct Answer:**

**Q17. The value of  $\sin 30^\circ \sin 60^\circ / \cos 60^\circ \cos 30^\circ - \tan 45^\circ$  is:**

- a. 5
- b. 2
- c. 0
- d. 1

**Correct Answer: 0**

**Q18. A shopkeeper marked a computer table for 7200. He allows a discount of 10% on it and yet makes profit of 8%. What will be his gain percentage if he does NOT allow any discount?**

- a. 9%
- b. 18%
- c. 20%
- d. 2%

**Correct Answer: 20%**

**Q19. The following table shows the income for a particular month, together with their source, in respect of 5 employees.**

	A	B	C	D	E
<b>SALARY</b>	52000	48500	42000	31000	25000
<b>OVERTIME</b>	0	0	1500	2500	3200
<b>ARREARS</b>	5500	4500	4000	3000	1500
<b>BONUS</b>	3500	3000	2500	2000	2000
<b>MISCELLANEOUS INCOME</b>	5000	3000	2000	1500	0
<b>TOTAL</b>	<b>66000</b>	<b>59000</b>	<b>52000</b>	<b>40000</b>	<b>31700</b>

How many employees got more than a total of Rs. 10000 as income other than salary?

- a. 1
- b. 2
- c. 3
- d. 4

**Correct Answer: 2**

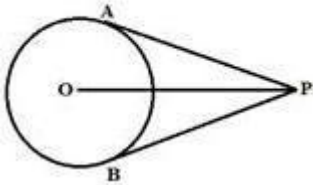
**Q20.** The number of students enrolled in different streams in a college is shown in the following table.

SCIENCE		ARTS		COMMERCE		VOCATIONAL	
GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS
35	18	25	47	45	40	10	30

- a. 27 : 23
- b. 1 : 1
- c. 13 : 12
- d. 23 : 27

**Correct Answer: 27 : 23**

**Q21.** In the given figure, if  $\angle APO = 35^\circ$ , then which of the following options is correct?



- a.  $\angle BPO = 55^\circ$
- b.  $\angle BPO = 35^\circ$
- c.  $\angle APB = 60^\circ$
- d.  $\angle APB = 80^\circ$

**Correct Answer:  $\angle BPO = 35^\circ$**

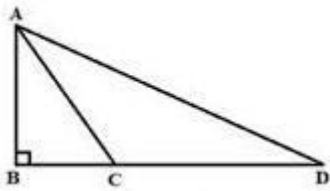
**Q22.** If  $a + 1/a = 5$  then  $a^3 + 1/a^3$  is:



- a. 140
- b. 110
- c. 80
- d. 10

**Correct Answer: 110**

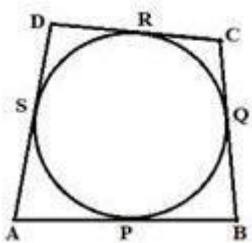
**Q23. In the given figure, if  $AB = 8$  cm,  $AC = 10$  cm,  $\angle ABD = 90^\circ$  and  $AD = 17$  cm, then the measure of  $CD$  is:**



- a. 11 cm
- b. 9 cm
- c. 10 cm
- d. 8 cm

**Correct Answer: 9 cm**

**Q24. In the given figure, if  $AB = 10$  cm,  $CD = 7$  cm,  $SD = 4$  cm and  $AS = 5$  cm, then  $BC = ?$**



- a. 8 cm
- b. 9 cm
- c. 6 cm
- d. 7.5 cm

**Correct Answer: 8 cm**

**Q25. In a triangle, if the measures of two sides are 5 cm and 8 cm, then the third side can be:**

- a. 3 cm
- b. 14 cm
- c. 4 cm
- d. 2 cm

**Correct Answer: 4 cm**



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