# KOTHARI INTERNATIONAL SCHOOL, NOIDA

**TERM END ASSESSMENT , SESSION 2024-2025**

**GRADE: 8 SUBJECT: MATHEMATICS**

**SET: A SECTION A (OBJECTIVE QUESTIONS)**

**DAY & DATE: FRIDAY, 28th FEBRUARY'2025**

**MAXIMUM MARKS: 20 TIME ALLOTTED: 30 MINUTES**

**NAME: _____ ROLL NO: _____**

***GENERAL INSTRUCTIONS:***

***i). This question paper consists of 2 pages and 20 questions.***

***ii). Question Nos.1 to 20 carries 1 mark each.***

***iii). It is compulsory to attempt all the questions.***

***iv). Read the question paper carefully and then attempt it***

| SECTION – A | | |
|---|---|---|
| **Q1 .** | **If the radius of a cylinder is tripled but its curved surface area is unchanged, then its height will be ?**<br>**(a) tripled (b) constant (c) one-sixth (d) one-third** | **(1 )** |
| **Q2.** | **Which of the following numbers is not a perfect cube?**<br>**(a) 216 (b) 624 (c) 125 (d) 343** | **(1 )** |
| **Q3.** | **Divide the number 3072 by smallest number so that the quotient is a perfect cube. Also find the cube root of quotient.**<br>**(a) 12 (b) 4 (c) 2 (d) 6** | **(1 )** |
| **Q4.** | **A point in which the x-coordinate is zero and y-coordinate is non- zero will lie on the**<br>**(a) X-Axis (b) Y-Axis (c) I Quadrant (d) II Quadrant** | **(1 )** |
| **Q5.** | **A dealer buys a wristwatch for Rs 225 and spends Rs 15 on its repairs. If he sells the same for Rs 300, his profit percent is?**<br>**(a) 24% (b) 26% (c) 25% (d) 23%** | **(1 )** |
| **Q6.** | **If $(6a^7 - 5a^6b^5 + 4a^4) + (?) = -6a^7 + 4a^6b^5 + 3a^4$. Then ? is**<br>**(a) $-12a^7 + 9a^6b^5 - a^4$ (b) $12a^7 + 9a^6b^5 - a^4$**<br>**(c) $-12a^7 + 6a^6b^5 - a^4$ (d) $-12a^7 + 9a^6b^5 - a^4$** | **(1 )** |
| **Q7.** | **If 12a = 50 x 50 – 38 x 38 , then the value of 'a' is ?**<br>**(a) 12 (b) 88 (c) 25 (d) 90** | **(1 )** |
| **Q8.** | **Meenakshee cycles to her school at an average speed of 12 km/h and takes 20 minutes to reach her school. If she wants to reach her school in 12 minutes, her average speed should be?**<br>**(a) 20/3 km/hr (b)16 km/hr (c) 20 km/hr (d) 15 km/hr** | **(1 )** |
| **Q9.** | **Lemons were bought at Rs 48 per dozen and sold at the rate of Rs 40 per 10. Find the gain or loss per cent.**<br>**(a)10% loss (b) 10% gain (c) No profit no loss (d) 5% loss** | **(1 )** |

| | | |
|---|---|---|
| **Q10.** | **Arpita's present age is thrice of Shilpa. If Shilpa's age three years ago was x, then Arpita's present age is**<br>**(a) 3 (x – 3) (b)3x + 3 (c) 3x – 9 (d) 3(x + 3)** | **(1 )** |
| **Q11.** | **Assertion (A) – 'x' is length and 'y' is breadth of a rectangle. If the length of rectangle is increased by 5 units and breadth is decreased by 3 units, the new area of rectangle will be (x + 5)(y – 3)**<br>**Reasons (R) – Area of a rectangle is its length divided by breadth**<br>**a) Both A and R are true and R is the correct explanation of A**<br>**b) Both A and R are true but R is not the correct explanation of A**<br>**c) A is true but R is false**<br>**d) A is false and R is false** | **(1 )** |
| **Q12.** | **Assertion (A) – Rahul has grocery enough to last for 10 days . His friend joined him at home and the grocery lasted 5 days only.**<br>**Reason (R) – The time for which the grocery lasts is inversely proportional to the number of days grocery lasts.**<br>**a) Both A and R are true and R is the correct explanation of A**<br>**b) Both A and R are true but R is not the correct explanation of A**<br>**c) A is true but R is false**<br>**d) A is false but R is true** | **(1 )** |
| **Q13.** | **Coefficient of $a^{12}$ in (- $4a^{12}b^5c^9$) is _____.** | **(1 )** |
| **Q14.** | **$4a^2$+ 4a + 1 divided by (2a+1) gives the quotient as _____.** | **(1 )** |
| **Q15.** | **For a natural number m>1 , the Pythagorean triplets are ____, ____ and ____ .** | **(1 )** |
| **Q16.** | **The areas of two circles are in the ratio 49 : 64. Then the ratio of their circumferences is _____.** | **(1 )** |
| **Q17.** | **The perimeter of a circle and its diameter vary _____with each other.** | **(1 )** |
| **Q18.** | **Evaluating $\sqrt[3]{27} + \sqrt[3]{0.008} + \sqrt[3]{0.064}$ we get _____.** | **(1 )** |
| **Q19.** | **Simplify and fill in the blanks $(\frac{7}{9}\,a + \frac{9}{7}\,b)^2 - 2ab = \_\_\_\_a^2 + \_\_\_\_b^2$** | **(1 )** |
| **Q20.** | **There are _____ natural numbers between $8^2$ and $9^2$.** | **(1)** |