I.Choose the correct answer for the following :   1x8=8

1. **The simplified form of $\frac{135}{81}$ is :**

   a) $\frac{5}{3}$ b) $\frac{15}{9}$ c) $\frac{3}{5}$ d) $\frac{45}{27}$

2. **Example of rational number is :**

   a) $1+\sqrt{3}$ b) π c) $2\sqrt{3}$ d) 0

3. **The degree of the polynomial of $5x^3+4x^2+7x$ is :**

   a) 1 b) 2 c) 3 d) 4

4. **The co-efficient of the x in the simplified form of $(x+3)^3$ is :**

   a) 1 b) 9 c) 18 d) 27

5. **The value of $(64)^{1/2}$**

   a) 8 b) 16 c) 6 d) 12

6. **Which of the following is not a polinomial :**

   a) $4x^2-3x+7$ b) x^3+3x^2+1 c) $y^2+\sqrt{2}$ d) $y+\frac{2}{\sqrt{y}}$

7. **The number of straight lines passe sthrough a point :**

   a) 1 b) 2 c) 3 d) **Infinite**

8. **If two lines are interest each other them vertically opposite angles are:**

   a) straight angle   b) Right angle   c)unequal   d) equal

II. Answer the following questions :   1x4=4

9. **State the Remainder theorem?**

10. **Who is the father of Geometry?**

11. **Write the directive points of Origion?**

12. **Difine Postulates?**

III. Answer the following questions :   2x7=14

13. **Find the 6 rational numbers in between 3 and 4 ?**

14. **Simplify: $(3+\sqrt{3})(3-\sqrt{3})$.**

15. **$\frac{1}{7} = \overline{0.142857}...$ then find Decimal expansion of a)$\frac{2}{7}$ b)$\frac{3}{7}$ without long division?**

16. **Find the value of polynomial $5x-4x^3+3$, when x=2.**

17. **Find the remainder when** x^3+3x^2+3x+1 **is divided by** $(x+1)$ **by using Remainder theorem?**

18. **Evaluate the product of** 103×107 **without using mutiflication directly?**

19. **Express** $0.\overline{6}$ **in the form of** $\frac{p}{q}$ **, where** $(p,q \in Z, q \neq 0)$.

IV. <u>**Answer the following questions:**</u>   **3x2=6**

20. **Represent** $\sqrt{3}$ **on number line?**

21. **Construct a triangle ABC in which** $BC=7$ **cm,** $\underline{B}=75^0$ **and** $AB+AC=13cm$.

V. <u>**Answer the following questions:**</u>   **4x2=8**

22. **The angles of quadrilateral are in the ratio** $3:5:9:13$. **Find all the angles of The quadrilateral?**

23. **Prove that"The sum of the interior angles in the triangle is** 180^0**".**

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