

By. Er. Dharmendra Sir

7974073108, 9584873492

# **DPM CLASSES**

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

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**TEST - PAPER (CBSE/NCERT)**

## **NUMBER SYSTEMS**

**SESSION -2024-25**

**CLASS - 9<sup>th</sup>**

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Time : 1 hr      :- Number Systems :-      mm'

Q. 1. Find three rational numbers between  $\frac{5}{7}$  and  $\frac{6}{7}$

Q. 2. Insert a rational number and an irrational number between the following :  
 $\sqrt{2}$  and  $\sqrt{3}$



Q. 3. Express the following in the form  $\frac{p}{q}$ , where  $p$  and  $q$  are integers and  $q \neq 0$  :  $0.\overline{134}$

Q. 4. Simplify :  $(\sqrt{3}-\sqrt{2})^2$

Q. 5. Rationalise the denominator of the following:

(i)  $\frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$



(ii)  $\frac{3+\sqrt{2}}{4\sqrt{2}}$

Q. 6. If  $a = 2+\sqrt{3}$ , then find the value of  $(a-\frac{1}{a})$

Q. 7. Simplify :  $(\frac{3}{5})^4 \times (\frac{8}{5})^{-12} \times (\frac{32}{5})^6$

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Q.8. Express  $0.6 + 0.\bar{7} + 0.4\bar{7}$  in the form  $\frac{p}{q}$ ,  
where  $p$  and  $q$  are integers and  $q \neq 0$ .

Q.9. If  $a = \frac{3+\sqrt{5}}{2}$ , then find the value of  
 $a^2 + \frac{1}{a^2}$ .



Q.10. Find the value of  $\frac{4}{(216)^{-2/3}} + \frac{1}{(256)^{-3/4}} + \frac{2}{(243)^{-1/5}}$



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