

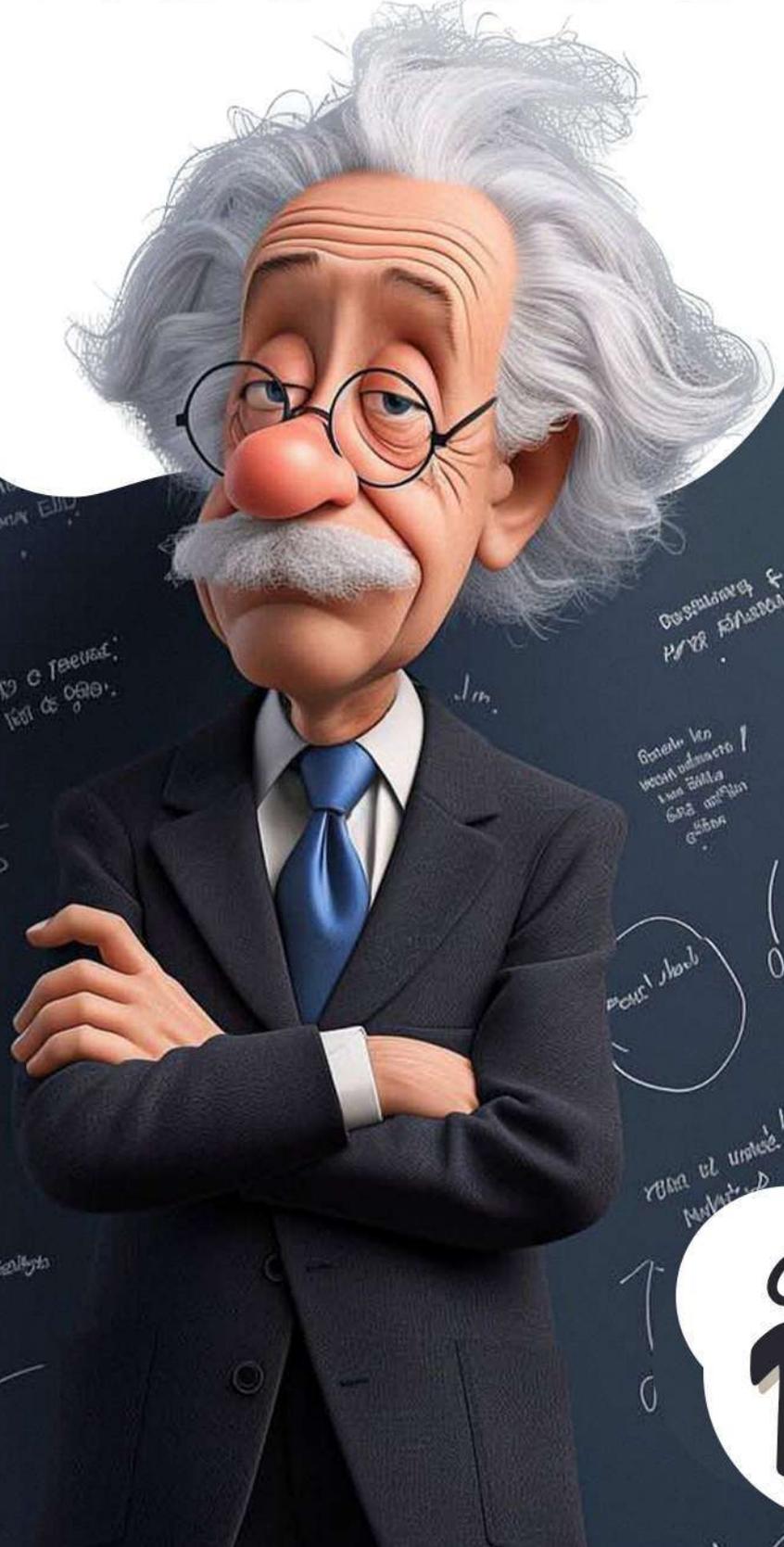


# RBSE

## CHAPTERWISE PYQ

# MATHS

2013 - 2025



Class  
**10**

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## REAL NUMBERS

### [Section-A]

#### Multiple Choice Questions :-

1. Which of the following is an irrational number? [1M]  
(A) 2  
(B) 2.232425....  
(C)  $2.\overline{23}$   
(D) 2.23 [RBSE 2022]
2. The sum of the powers of the prime factors of 196 is- [1M]  
(A) 1  
(B) 2  
(C) 4  
(D) 6 [RBSE 2023]
3. The Highest Common Factor of two numbers is 27 and their Least Common Multiple is 162 . If one number is 54 , then the other number is : [1M]  
(A) 81  
(B) 27  
(C) 54  
(D) 18 [RBSE 2024]
4. The sum of powers of prime factors of 400 is  
A) 4  
B) 9  
C) 6  
D) 8 [1M]  
[RBSE 2025]
5. If  $HCF = LCM$  for two rational numbers, then numbers always should be  
A) Composite  
B) Equal  
c.) Prime



18. Find the HCF and LCM of 12,15 and 21 using the prime factorisation method.

[2M]

(RBSE 2024)

### [Section-C]

#### *Long Answer Type Questions:-*

19. Find the highest positive integer by which dividing the numbers 396 , 436 and 542 remainders are 5,11 and 15 respectively.

[3M]

(RBSE 2013)

20. Find the H.C.F. and L.C.M. of the numbers 180, 72 and 252.

[3M]

(RBSE 2014)

21. Prove that  $\sqrt{2}$  is an irrational number.

[3M]

(RBSE 2015)

22. Prove that  $\sqrt{6}$  is an irrational number.

[3M]

(RBSE 2016)

23. Prove that  $\sqrt{3}$  is an irrational number.

[3M]

(RBSE 2017)

24. If the product of two numbers is 525 and their H.C.F. is 5, then find their L.C.M.

[3M]

(RBSE 2018)

25. Prove that  $7\sqrt{5}$  is an irrational number.

[3M]

(RBSE 2019)



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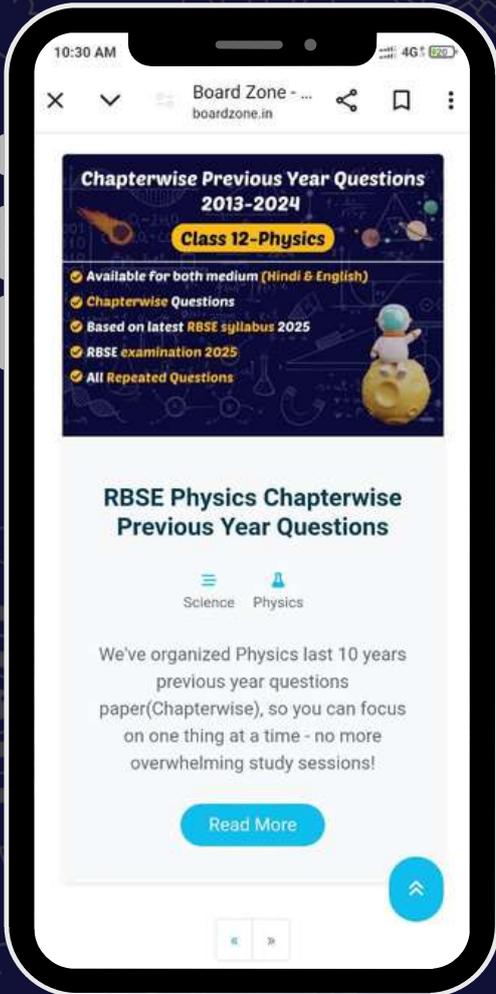


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