

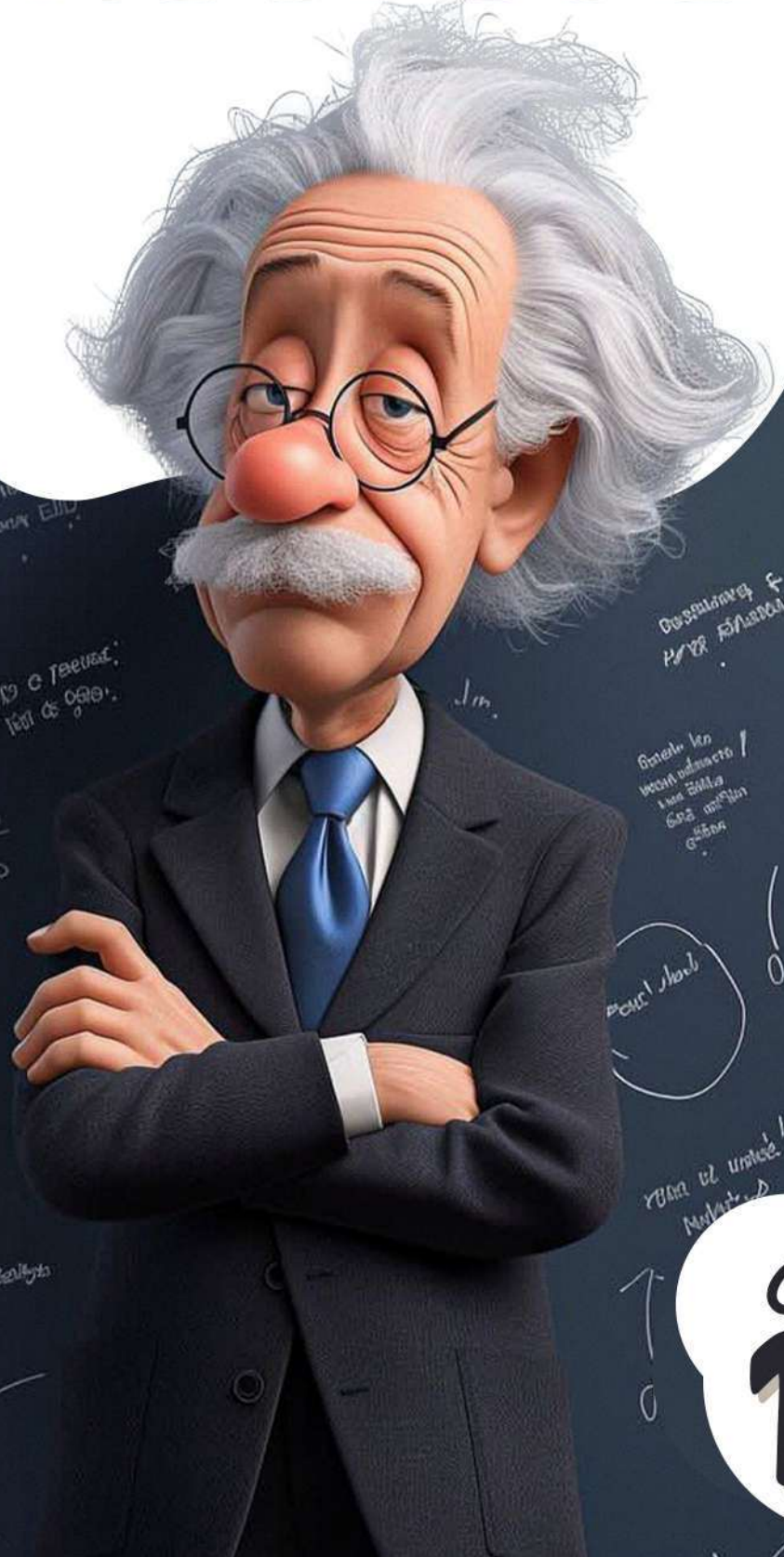


RBSE

CHAPTERWISE PYQ

MATHS

2013 - 2025



Class
10

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01

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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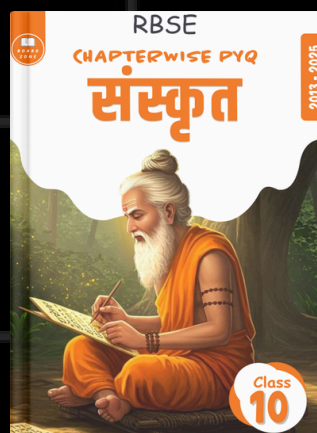
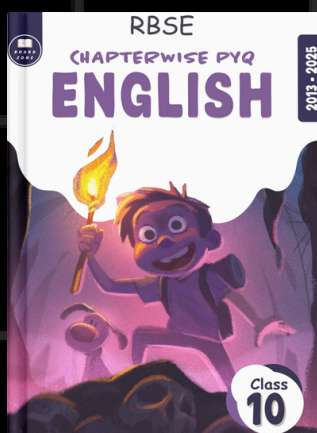
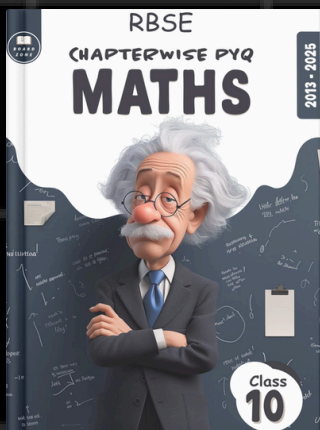


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