Chapter - 1

Real Numbers

1. Which of the following is an irrational number?

a) 2

b) 3/4

c) 0

d) √5

Answer: d

2. Which of the following is a rational number?

a) √3

b) √6

c) √7

d) √9

Answer: d

3. Every irrational number is:

a) A real number

b) A rational number

c) An integer

d) A whole number

Answer: a

4. The decimal expansion of the rational number 2/25 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) 4

 Answer: d

5. The HCF of two prime numbers is always:

a) 0

b) 1

c) 2

d) 3

 Answer: b

6. Which of the following is a prime number?

a) 1

b) 3

c) 6

d) 9

 Answer: b

7. The decimal expansion of the irrational number $\sqrt{2}$ is:

a) Terminating

b) Non-terminating repeating

c) Non-terminating non-repeating

d) None of these

   Answer: c

8. Which of the following is a co-prime pair?

a) 4 and 8

b) 6 and 9

c) 10 and 15

d) 12 and 15

   Answer: d

9. The decimal expansion of the rational number 5/7 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

   Answer: d

10. Which of the following is an irrational number?

a) 4/5

b) √10

c) 3/2

d) 5/4

   Answer: b

11. The decimal expansion of the rational number 3/8 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

Answer: d

12. The decimal expansion of the rational number 7/11 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

Answer: d

13. Which of the following is a prime number?

a) 10

b) 11

c) 12

d) 13

Answer: b

14. Which of the following is a co-prime pair?

a) 6 and 9

b) 8 and 12

c) 12 and 15

d) 15 and 20

Answer: a

15. The HCF of two co-prime numbers is always:

a) 0

b) 1

c) 2

d) 3

Answer: b

16. Which of the following is a rational number?

a) $\sqrt{2}$

b) $\sqrt{3}$

c) $\sqrt{4}$

d) $\sqrt{5}$

Answer: c

17. The decimal expansion of the rational number 1/3 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

Answer: d

18. Which of the following is an irrational number?

a) 2

b) 3

c) 4

d) √7

Answer: d

19. Which of the following is a prime number?

a) 1

b) 2

c) 3

d) 4

Answer: b

20. The HCF of two consecutive numbers is always:

a) 0

b) 1

c) 2

d) 3

Answer: b

21. Which of the following is a co-prime pair?

a) 8 and 12

b) 10 and 15

c) 12 and 20

d) 15 and 25

Answer: b

22. Which of the following is an irrational number?

a) 5

b) 6

c) 7

d) √6

 Answer: d

23. Which of the following is a prime number?

a) 19

b) 20

c) 21

d) 22

Answer: a

24. The decimal expansion of the rational number 5/9 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

   Answer: d

25. Which of the following is a rational number?

a) √6

b) √7

c) √8

d) √9

Answer: d

26. Which of the following is a co-prime pair?

a) 12 and 18

b) 15 and 21

c) 21 and 28

d) 24 and 36

Answer: b

27. Which of the following is an irrational number?

a) 2

b) 3

c) 4

d) √2

Answer: d

28. The decimal expansion of the rational number 7/9 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

Answer: d

29. Which of the following is a prime number?

a) 25

b) 26

c) 27

d) 29

 Answer: d

30. The LCM of two co-prime numbers is always:

a) 0

b) 1

c) 2

d) 3

Answer:d

31. Which of the following is an irrational number?

a) 3/4

b) 5/6

c) 7/8

d) $\sqrt{3}$

Answer: d

32. Which of the following is a prime number?

a) 31

b) 32

c) 33

d) 34

Answer: a

33. The decimal expansion of the rational number 4/5 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

Answer: b

34. Which of the following is an irrational number?

a) 4

b) 5

c) 6

d) √5

Answer: d

35. Which of the following is a co-prime pair?

a) 14 and 21

b) 16 and 24

c) 18 and 27

d) 20 and 30

Answer: a

36. Which of the following is a prime number?

a) 37

b) 38

c) 39

d) 40

Answer: a

37. The decimal expansion of the rational number 1/3 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

Answer: d

38. Which of the following is an irrational number?

a) 6

b) 7

c) 8

d) $\sqrt{7}$

Answer: d

39. Which of the following is a co-prime pair?

a) 22 and 33

b) 24 and 36

c) 27 and 39

d) 30 and 42

Answer: a

40. Which of the following is a prime number?

a) 41

b) 42

c) 43

d) 44

Answer: c

41. The decimal expansion of the rational number 5/11 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

Answer: d

42. Which of the following is an irrational number?

a) 9

b) 10

c) 11

d) √11

Answer: d

43. Which of the following is a co-prime pair?

a) 36 and 45

b) 40 and 50

c) 42 and 56

d) 48 and 60

Answer: d

44. Which of the following is a prime number?

a) 47

b) 48

c) 49

d) 50

Answer: a

45. The decimal expansion of the rational number 7/11 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

Answer: d

46. Which of the following is an irrational number?

a) 12

b) 13

c) 14

d) √13

Answer: d

47. Which of the following is a co-prime pair?

a) 50 and 75

b) 60 and 90

c) 72 and 96

d) 80 and 100

Answer: d

48. Which of the following is a prime number?

a) 53

b) 54

c) 55

d) 56

Answer: a

49. The decimal expansion of the rational number 2/7 will terminate after how many places of decimals?

a) 1

b) 2

c) 3

d) It will not terminate

Answer: d

50. Which of the following is an irrational number?

a) 15

b) 16

c) 17

d) √17

Answer: d