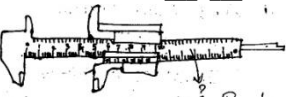



1. A number is irrational if and only if its decimal expansion is \_\_\_\_\_.  
 a) Terminating  
 b) Non-terminating and repeating  
 c) Non - Terminating  
 d) Non-terminating and non - repeating
2. The standard form of the rational number is \_\_\_\_\_.  
 a)  $\frac{p}{-q}$     b)  $p + q$     c)  $\frac{p}{q}$     d)  $p - q$
3. The product of a non-zero rational number with an irrational number is \_\_\_\_\_.  
 a) Rational number    b) Whole number    c) Irrational number    d) Natural number
4. The decimal expansion 0.45 is \_\_\_\_\_.  
 a) Terminating irrational number    b) Non-terminating irrational number  
 c) Terminating rational number    d) None of these
5. Identify the irrational number among these  
 a)  $3\sqrt{20}$     b) 77    c) 9.83    d)  $\frac{9}{5}$
6.  $\frac{p}{q}$  form if 0.65 is \_\_\_\_\_.  
 a)  $\frac{6}{5}$     b)  $\frac{65}{1000}$     c)  $\frac{65}{10}$     d)  $\frac{65}{100}$
7. Which of the following is true?  
 a)  $(a + \sqrt{b})(a - \sqrt{b}) = a^2 - b^2$     b)  $(a + \sqrt{b})(a - \sqrt{b}) = a - b^2$   
 c)  $(a + \sqrt{b})(a - \sqrt{b}) \neq a^2 - b$     d)  $(a + \sqrt{b})(a - \sqrt{b}) = a^2 - b$
8. Convert  $\frac{7}{25}$  in the form of decimals.  
 a) 0.35    b) 6.26    c) 0.27    d) 0.28
9.  $(4 + \sqrt{5})(4 - \sqrt{5}) =$  \_\_\_\_\_.  
 a) 10    b) 12    c) 11    d) 9
10.  $\sqrt{2} + \sqrt{3} =$  \_\_\_\_\_.  
 a)  $\sqrt{5}$     b)  $\sqrt{2 + 3}$     c)  $\sqrt{3 + 2}$     d) None of these
11. Which of the following is true?  
 a) A terminating decimal is that which has no end    b)  $\sqrt{4}$  is an irrational number  
 c) A terminating decimal is that which has an end    d)  $\sqrt{a} + \sqrt{b} = \sqrt{a + b}$
12.  $\frac{1}{\sqrt{3} + 1} =$  \_\_\_\_\_.  
 a)  $\frac{\sqrt{3} + 1}{2}$     b)  $\frac{\sqrt{3} - 1}{3}$     c)  $\frac{\sqrt{3} + \sqrt{1}}{3}$     d)  $\frac{\sqrt{3} - 1}{2}$
13.  $\sqrt{\frac{49}{36}} =$  \_\_\_\_\_.  
 a)  $\frac{6}{7}$     b)  $\frac{\sqrt{49}}{7}$     c)  $\frac{7}{6}$     d)  $\frac{6}{\sqrt{36}}$
14. The value of  $\sqrt{2}$  is \_\_\_\_\_.  
 a) 3.14...    b) 2.14...    c) 0.414...    d) 1.414...
15. i)  $\sqrt{a} - \sqrt{b} = \sqrt{a - b}$     ii)  $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$     iii)  $(\sqrt{a} + \sqrt{b})^2 = a + 2\sqrt{a}\sqrt{b} + b$     iv)  $\sqrt{3} - \sqrt{1} = \sqrt{2}$   
 which of the above is true?    a) (i) and (ii)    b) (ii) and (iii)    c) (iii) and (iv)    d) (iv) and (i)
16.  $\sqrt{64} =$  \_\_\_\_\_.  
 a)  $2^2 + 3$     b)  $7 - 3$     c)  $3^2 - 1$     d)  $2^3 + 1$
17.  $\pi$  is a \_\_\_\_\_ number.  
 a) Rational    b) Whole    c) Integer    d) Irrational
18. Rational number is denoted by \_\_\_\_\_.  
 a) R    b)  $R^1$     c) Q    d) Z
19. To \_\_\_\_\_ the denominator of  $\frac{1}{\sqrt{6} + 7}$ , we multiply it by  $\frac{\sqrt{6} - 7}{\sqrt{6} - 7}$  \_\_\_\_\_.  
 a) Equalize    b) Unequalize    c) Remove    d) Rationalise
20. Which of the following is repeating non-terminating decimal?  
 a) 0.123123...    b) 0.566    c) 0.5732...    d) 0.33
21. Weight is measured in \_\_\_\_\_.  
 a) m    b) s    c) kg    d) ampere
22. Name the quantity which does not depend on others.  
 a) Physical    b) Fundamental    c) Derived    d) measurable
23. Unit of time is \_\_\_\_\_.  
 a) Electric current    b) Kelvin    c) Second    d) Kg
24. Expansion of F.P.S is \_\_\_\_\_.  
 a) Foot, Pound and Second    b) Foot, Plus, Second    c) Foot, Pound, Size    d) Feet, Pound, Second
25. Gram comes under \_\_\_\_\_ system.  
 a) C.G.S    b) S. G. K    c) G. S. M    d) S. M. G

26. M. K. S system is also known as \_\_\_\_\_. a) M.I b) S. I c) G. I d) I. S
27. Write the total number of fundamental Units. a) 6 b) 5 c) 7 d) 8
28. Name the instrument used to measure length.  
a) Metre Scale b) Main Scale c) Vernier Scale d) Map Scale
29. Kilogram comes under \_\_\_\_\_ system. a) M. K. S b) C. G. S c) K. M. S d) F. K. S
30. Expansion of S. I unit is \_\_\_\_\_.  
a) System India b) System International c) Scale International d) Second International
31. Electric current is a \_\_\_\_\_ Quantity. a) Physical b) Fundamental c) Derived d) Measurable
32. Unit of temperature is \_\_\_\_\_. a) Kelvin b) Second c) Ampere d) Candela
33. Write the odd one from Ampere, Mole, time, metre \_\_\_\_\_. a) Ampere b) Mole c) Time d) Metre
34. Least count = \_\_\_?\_\_\_ - 1.V.S.D. a) 2 M.S.V b) 1 M.S.D c) 2 M.S.W d) 1 M.S.V
35.  a) Main Scale b) Main Reading c) Vernier Scale d) Vernier Reading
36. \_\_\_\_\_ system is accepted and used over the world for scientific work. a) S.L. b) I.S c) S. I d) S.P
37.  Identify the balance. a) Table Balance b) Spring balance c) Triple beam d) Single pan
38. Name the balance used to measure the weight of a person.  
a) Spring b) Compression spring c) Table d) Postal
39. Choose the odd one. Physical quantity is \_\_\_\_\_.  
a) Well defined b) Measurable c) Changeable d) Reproducible
40. Expansion of M. K. S is \_\_\_\_\_.  
a) Mass, Kg, Second b) Metre, Kg, Second c) Metre, Kg, Scale, d) Millimetre, Kg, Scale
41. National Crime Record Bureau (NCRB) celebrated its \_\_\_\_\_ Inception Day on March 11, 2019.  
a) 40<sup>th</sup> b) 34<sup>th</sup> c) 31<sup>st</sup> d) 28<sup>th</sup>
42. United States of America will set up six \_\_\_\_\_ power plants in India.  
a) Nuclear b) Nucleus c) Nano d) All the above
43. Expand "WGC" = \_\_\_\_\_.  
a) World Gold Corporation b) World Goal Council c) World Gold Council d) World Gold Counsel
44. \_\_\_\_\_ celebrated its 107<sup>th</sup> foundation day on 22<sup>nd</sup> March.  
a) Tamil Nadu b) Andhra Pradesh c) Calcutta d) Bihar
45. \_\_\_\_\_ is the International Day for Monuments & Sites.  
a) 18<sup>th</sup> April b) 18<sup>th</sup> March c) 18<sup>th</sup> October d) 18<sup>th</sup> December
46. Name the 1<sup>st</sup> female astronaut \_\_\_\_\_.  
a) Jerrie Cobb b) Jery c) Kalpana Chawla d) None of the above
47. Prime Minister Narendra Modi declared 2019-20 as the year of construction \_\_\_\_\_.  
a) Industries b) Technology c) Machines d) Agriculture
48. ISRO has launched "Young Scientist Programme" for \_\_\_\_\_ children.  
a) School b) College c) Both a & b d) None of the above
49. Nepal launched its first satellite "Nepalist"-1 from U.S on \_\_\_\_\_.  
a) 20<sup>th</sup> August 2019 b) 19<sup>th</sup> April 2019 c) 1<sup>st</sup> August 2019 d) 1<sup>st</sup> April 2018
50. Srilanka's first satellite \_\_\_\_\_ was launched into space from NASA.  
a) Ravana - 1 b) Raavana - 1 c) Raavana d) Raavana - 2