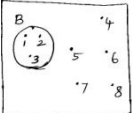
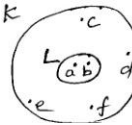
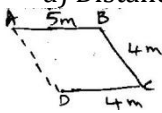


1. A _____ is a group or collection of objects or numbers.
 a) Integer b) Set c) Fraction d) All of these
2. The number of elements in a set is called as _____.
 a) Subset b) Empty set c) Cardinal number d) Universal
3. The _____ set has no elements. a) Empty b) Sub c) Universal d) None of these
4. Which of the following represents the subset symbol? a) \cup b) \cap c) B' d) C
5. Universal set consists of _____ elements. a) All b) 5 c) No d) 100
6. Universal set is represented by the symbol _____. a) A b) Q c) \cup d) None of these
7. If there is no common element between any two sets then they are said to be _____ set.
 a) Universal b) Disjoint c) Power d) Subset
8. Each object or number in a set is called as _____.
 a) Element b) Cardinal number c) Operation d) None of these
9. If $A = \{11, 15, 20\}$ then the cardinal number of A is _____. a) 11 b) 15 c) 20 d) 3
10. If $P = \{a, b, c, d\}$ and $Q = \{d, e, f, g\}$ then which of the following is true?
 a) $P \cap Q = \Phi$ b) $n(Q) = 4$ c) $P \subset Q$ d) $Q \subset P$
11. If $A \subset B$ then identify the sets A and B.
 a) $A = \{1, 2, 3\}$, $B = \{3, 4, 5\}$ b) $A = \{a, b, c\}$, $B = \{a, e, c\}$
 c) $A = \{1, 2, 3\}$, $B = \{x, y, z\}$ d) $A = \{4, 5, 6\}$, $B = \{1, 2, 3, 4, 5, 6\}$
12. We can represent sets by _____ diagram. a) Venn b) Graph c) Art d) None
13. If $S = \{1, a\}$ then number of subsets of S is _____. a) 2 b) 4 c) 3 d) 0
14. Set J is the set of factors of 20. Find $n(J)$. a) 6 b) 10 c) 15 d) 2
15. $M = \{2, 4, 6, 8\}$ and $N = \{1, 3, 5, 7, 9\}$ then $M \cup N =$ _____.
 a) $\{2, 4, 6, 8, 10, 12, 14, 16, 18\}$ b) $\{1, 3, 5, 7, 9, 11, 13, 15, 17\}$
 c) $\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$ d) $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
16. Which set is a subset of any given set?
 a) Disjoint set b) Empty set c) Intersection d) Universal set
17. Identify the symbol of null set. a) Φ b) C' c) \cup d) \cap
18.  From the given figure, Identify B'
 a) $\{1, 2, 3\}$ b) $\{1, 2, 3, 4, 5\}$ c) $\{4, 5, 6, 7, 8\}$ d) $\{1, 2, 3, 4, 5, 6, 7, 8\}$
19.  Study the given figure and identify the false statement.
 a) $L \subset K$ b) $L \cup K = K$ c) $L \cap K = L$ d) $K \subset L$
20. Cardinality of an empty set is _____. a) 0 b) 1 c) 5 d) 10
21. The one which deals with the motion of bodies without considering the cause of their motion is _____.
 a) Kinetic b) Kinematic c) Scalar d) Vector
22. Which physical quantity is said to have only magnitude?
 a) Scalar b) Vector c) Kinetic d) Kinematic
23. Pick the one which is not a scalar quantity.
 a) Mass b) Distance c) Time d) Displacement
24. What is the unit of distance in C.G.S system? a) Metre b) Pound c) Centimetre d) Millimetre
25. _____ is the length of actual path described by a particle in motion.
 a) Distance b) Displacement c) Force d) Velocity
26. Identify the vector quantity. a) Acceleration b) Mass c) Time d) Speed
27. What is the unit of distance in M. K. S. system. a) Metre b) Centimetre c) Millimeter d) Decimetre

28. Which is defined as the shortest distance between the initial and final positions of a body?

- a) Distance b) Displacement c) Scalar d) Vector

29. Observe the figure and calculate the distance travelled by a particle.



- a) 21m b) 13m c) 11m d) 24m

30. Speed is represented as _____. a) $\frac{v}{t}$ b) $\frac{s}{t}$ c) $\frac{d}{t}$ d) $\frac{t}{s}$

31. Name the device used to measure the speed of a vehicle.

- a) Fathometre b) Galvanometer c) Speedometer d) Odometer

32. Average speed is the ratio of the total ____ travelled to the total ____ taken by the particle.

- a) Speed, time b) Distance, time c) Time, distance d) Time, speed

33. Velocity is defined as ____ of a body in unit time.

- a) Distance b) Displacement c) Vector d) Scalar

34. Unit of velocity in C.G.S system is ____.

- a) ms^{-1} b) cms^{-1} c) mms^{-1} d) kms^{-1}

35. Change in velocity is represented as ____.

- a) $v \div u$ b) $v \times u$ c) $v + u$ d) $v - u$

36. The formula for \bar{V}_{AVG} is _____.

- a) $\frac{s}{t}$ b) $\frac{t}{s}$ c) $\frac{m}{t}$ d) $\frac{v}{t}$

37. ____ is the ratio of the change of velocity.

- a) Distance b) Acceleration c) Uniform speed d) Variable speed

38. Final velocity is represented by the letter ____.

- a) U b) V c) S d) T

39. The equation of motion, $V = U +$ _____.

- a) at b) at^2 c) $2aS$ d) $2Sa$

40. Velocity is a ____ quantity.

- a) Vector b) Scalar c) Uniform d) Non-uniform

41. National Crime Record Bureau (NCRB) celebrated its _____ Inception Day on March 11, 2019.

- a) 40th b) 34th c) 31st d) 28th

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 107th foundation day on 22nd March.

- a) Tamil Nadu b) Andhra Pradesh c) Calcutta d) Bihar

45. _____ is the International Day for Monuments & Sites.

- a) 18th April b) 18th March c) 18th October d) 18th December

46. Name the 1st female astronaut _____.

- a) Jerrie Cobb b) Jerry 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 "Nepalishat-1" from U.S on _____.

- a) 20th August 2019 b) 19th April 2019 c) 1st August 2019 d) 1st April 2018

50. Srilanka's first satellite _____ was launched into space from NASA.

- a) Ravana - 1 b) Raavana - 1 c) Raavana d) Raavana - 2