

1. Sum of the first n terms of an AP is _____.

- a) $S_n = n(a + l)$ b) $S_n = \frac{1}{2}(a + l)$ c) $S_n = \frac{n}{2}(a + l)$ d) $S_n = n\left(\frac{a}{2} + l\right)$

2. Common difference is found by the formula.

- a) $d = (t_2 - t_1)$ b) $d = t_1 - t_2$ c) $d = t_3 - t_1$ d) None of the above

3. Infinite AP's do not have _____. a) Any term b) Last term c) Second term d) First term

4. Finite AP means _____ of terms.

- a) One term b) Countable terms c) Uncountable terms d) None of these

5. Find d, the difference in the following AP. 2, 7, 12, ...

- a) 5 b) 7 c) 2 d) 12

6. nth term of the AP is found using the given formula.

- a) $a_n = (a + n) - 1d$ b) $a_n = a + (n - 1)d$ c) $a_n - 1 + dn = 1a$ d) $a = a_n + (n - 1)d$

7. Write the next term of the AP 5, 8, 11, 14, _____.

- a) -1 b) 3 c) 17 d) 21

8. Which of the following is not an AP?

- a) 1, 4, 7 ... b) 3, 7, 12, 18 ... c) 11, 14, 17, 20, ... d) -5, -2, 1, 4 ...

9. The sum of the first 20 natural numbers is ____.

- a) 210 b) 285 c) 400 d) 421

10. Write the next term of the AP 8, 18, 28, ...

- a) 50 b) 64 c) 38 d) 72

11. Find the common difference in the following sequence -10, -5, 0, 5 ...

- a) -5 b) 5 c) 0 d) 10

12. The series 1, 8, 15, 22, 29, 36, is ____.

- a) GP b) AP c) Geometric series d) Arithmetic series

13. Find the 15th term of the sequence 20, 15, 10 ...

- a) -45 b) -55 c) -50 d) 0

14. 7th term of arithmetic progression 2, 6, 10 ... is ____.

- a) 62 b) 24 c) 26 d) 0

15. The first term of the arithmetic progression series is denoted by the alphabet.

- a) a b) e c) 6 d) d

16. An _____ is a list of numbers in which each term is obtained by adding a fixed number to the preceding term except the first term.

- a) Geometric progression b) Arithmetic progression c) Mean d) None of these

17. Form an AP sequence with $a = 6$ and $d = -2$.

- a) 6, -6, 4, -4 ... b) 6, 8, 10, 12 ... c) 6, 4, 2, 0 ... d) None of these

18. Which term of the AP is 23 if its series is 5, 8, 11, 14, 17, 20 ... 50.

- a) Not an AP b) 7th term c) 10th term d) None of these

19. In the given AP series the term at position 11 would be 5, 8, 11, 14, 17, 20 ... 50.

- a) 35 b) 45 c) 25 d) None of the mentioned

20. Find the sum of the first 1000 positive integers.

- a) 50505 b) 500500 c) 500 d) 5000

21. Newton's first law of motion is also known as the law of _____.

- a) Friction b) Inertia c) Motion d) Speed

22. Frictional force is an _____.

- a) Opposing force b) Magnetic force c) Static force d) None of the above

23. Wheels used in trollies are examples of _____.

- a) Static friction b) Sliding friction c) Rolling friction d) All the above

24. According to Newton's Second law of motion when a force is applied to a body at _____, it is set in motion.

- a) Motion b) Movement c) Action d) Rest

25. Newton's _____ law helps us to measure force.

- a) First b) Second c) Third d) Fourth

26. "It states that for every action there is an equal and opposite reaction" - said by _____.

- a) Einstein b) Pascal c) Edison d) Newton

27. _____ is defined as the ability of a body to do work.

- a) Energy b) Heat energy c) Light energy d) All the above

28. _____ is the S.I. unit of energy.

- a) Joules b) Calories c) F/area d) None of the above

29. Find out the pair. i) Energy - Scalar

- ii) Inertia - Friction (Reduce)

iii) Work - Joule

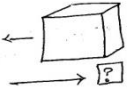
- iv) Lubricant - Motion

- a) iii, iv, ii, i

- b) iv, i, ii, iii

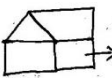

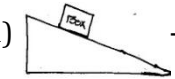
- c) iii, i, ii, iv

- d) iii, iv, i, ii

30. Applied Force  Name the force acting opposite to applied force.

- a) Electrostatic Force b) Frictional Force c) Magnetic force d) None of the above

31. Match:

- i)  - Rolling friction ii)  - Sliding friction iii)  - Static friction


- a) ii, iii, i b) i, ii, iii c) iii, ii, i d) iii, i, ii

32. Choose the correct one: (i) Lubricant like oil reduce the friction (ii) Irregularities between two increases friction (iii) High friction enables us to move slow (iv) Water increases the friction.

- a) i, ii, iii b) ii, iii, iv c) iii, i, iv d) i, iii, ii

33. As work is _____, energy is also scalar.

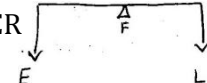
- a) Vector b) Scalar c) Scalar & Vector d) All the above

34.  In the above figure what does this "G" represent?

- a) Centre of stone b) Centre of gravity c) Centre of ground d) Centre of object

35. A body is said to be in _____ if it does not experience a change in its state of rest or of uniform motion, even under the influence of external forces.

- a) Equilibrium b) Gravity c) Displaced d) Motion

36. LEVER  what does F denote? a) Friction b) Force c) Fulcrum d) Effort

37. Law of levers. (i) Load X _____ = Power X _____.

- a) Power arm, load arm b) Load arm, power arm c) Load d) Power

38. Pick out the one which does not belong to first order lever

- a) Scissors b) See- saw c) Wheel barrow d) Crow - bar

39. Write the correct order of Effort, Load & Fulcrum according to the second order lever.

- a) F LE b) ELE c) LEF d) EFL

40. Which is the one that doesn't belong to first order or second order lever?

- a) Crow-bar b) Nut-cracker c) Fishing rod d) Screw driver

41. _____ is the process of expressing information or ideas by word of mouth.

- a) Oral communication b) Written communication c) Gesture d) None of the above

42. _____ communication enables the speaker to gain attention to his / her audience.

- a) Mobile phone b) Mike c) Gestures d) Silence

43. Knives and spoons are placed on the _____ side of the plate.

- a) Right b) Left c) Both right and left d) None of the above

44. Small spoon at the top of the plate is for _____. a) Dessert b) Desert c) Soup d) both b & c

45. Avoid _____ in your food to cool down. a) Sipping b) Blowing c) Fanning d) Both b & a

46. Understanding and empathy for others is _____.

- a) Self awareness b) Cultural awareness c) Social awareness d) Political awareness

47. Many students lack effective _____ in dealing with adults.

- a) Social skill b) Personal skill c) Negotiation skill d) Patience

48. Personality development helps in the _____ development of an individual.

- a) Partly b) No c) Overall d) Less

49. _____ is a way to say who you are without having to speak.

- a) Dress b) Education c) Business d) Style

50. _____ emotion can be good when you are motivating yourself to find the solution.

- a) Laughter b) Dressing c) Anger d) None of the above