

Section : 1 - Aptitude and Logical Reasoning 

1.Choose the numeral pair which is different from others.

(a) 42 − 2 (b) 36 − 6 (c) 32 − 2 (d) 15 − 5

2. Anaemia : Blood : : Anarchy : ?

(a) Lawlessness (b) Government (c) Monarchy (d) Disorder

3. Pointing to a lady in the photograph, Shaloo said, “Her son’s father is the son-in-law of my mother.” How is Shaloo related to the lady?

 (a) Aunt (b) Sister (c) Mother (d) Cousin

4. Kunal walks 10 km towards North. From there he walks 6 km towards South. Then, he walks 3 km towards East. How far and in which direction is he with reference to his starting point?

 (a) 5 km West (b) 7 km West (c) 7 km East (d) 5 km North-east

5. Find the wrong number in the series : 3, 8, 15, 24, 34, 48, 63

 (a) 15 (b) 24 (c) 34 (d) 48

Section : 2 - Mathematics

6. Which point number line shows 6 – 2?

 

 (a) R (b) S (c) Q (d) T

7. Find the additive identity of (– 4 – (–5))

 (a) –9 (b) 9 (c) 0 (d) 1

8. Which of the following options is true with respect to the given number line?

 

 (a) P is greater than –1 (b) Q is greater than 9 (c) Q is less than P (d) P is less than – 1

9. What value of x makes the following statement true?

 (– 14) + x = (– 25) + (– 14)

 (a) 25 (b) –25 (c) 26 (d) – 26

10. If the product of two integers is 2540 and one of them is – 4, then find the other integer.

 (a) 635 (b) – 635 (c) 425 (d) – 625

11. If 1264 is divided by – 8, then what will be the quotient?

 (a) – 304 (b) 158 (c) 304 (d) – 158

12. If m and n are any two integers, then which of the following may not be an integer?

 (a) m + n (b) m – n (c)  (d) 

13. \_\_\_\_\_\_\_\_\_\_ is the multiplicative identity for the integers.

 (a) –1 (b) 0 (c)  (d) 1

**Section : 3 - Science**

14. An object which emits light of their own is called

(a) Opaque (b) Transparent (c) Luminous (d) Non-luminous

15. Light travels in

 (a) Straight line (b) Curved line (c) Zig-zag line (d) Randomly

16. Which of the following object does not emit light of its own?

 (a) The sun (b) The star (c) The moon (d) A firefly

17. Which of the following unit is used to measure length?

 (a) Gram (b) Metre (c) Litre (d) Celsius

18. 1 metric tonne =

 (a) 10 kg (b) 100 kg (c) 1000 kg (d) 10000 kg

19. The amount of surface occupied by an object is called its

 (a) Volume (b) Area (c) Mass (d) Length

20. The types of physical quantities

 (a) Base quantities and Derived quantities

 (b) Base quantity and Physical quantities

 (c) Vector quantities and Dimensional quantities

 (d) Vector quantities and Scalar quantities

21. The % of total drinking water available on earth is:

 (a) 0.3% (b) 1% (c) 6% (d) 4%

22. The process by which water from the surface of the earth moves to the atmosphere is:

 (a) Precipitation (b) Condensation (c) Evaporation (d) All of the above

23. Which one of the following diseases occurs due to water pollution?

 (a) Cholera (b) Typhoid (c) Jaundice (d) All the above

24. Potable water is

 (a) Ocean Water (b) Groundwater at selected places

 (c) River water (d) Ponds water

25. The process by which butter can be separated from milk is \_\_\_\_\_\_\_.

 (a) Sedimentation (b) Decantation (c) Filtration (d) Churning

26. In the process of distillation, evaporation is followed by \_\_\_\_\_\_\_.

 (a) Filtration (b) Sublimation (c) Condensation (d) None of the above

27. The process in which a mixture of heavier particles and lighter particles are separated by the wind is \_\_\_\_\_\_\_.

 (a) Threshing (b) Reaping (c) Harvesting (d) Winnowing

28. Find the odd one out based on desert adaptation

 (a) the leaves in plants are either absent, very small to they are in the form of spines.

 (b) presence of sunken stomata

 (c) concentrated urine

 (d) slippery skin

29. Find the odd substance, according to its source

 (a) Lac (b) Silk (c) Honey (d) Rubber

30. Select the correct match.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Plant** | **Type of root system** | **Type of venation** |
| (a) | Banana | Fibrous | Reticulate |
| (b) | Grass | Tap | Parallel |
| (c) | Radish | Tap | Reticulate |
| (d) | Onion | Tap | Parallel |

31. Complete the analogy:

 Cinnamon : bark of stem :: Cloves : \_\_\_\_\_\_\_

 (a) Seeds (b) Fruits (c) Leaves (d) Peduncle of flowers

32. Which one of the following is a function of leaves?

 (a) Photosynthesis (b) Transpiration (c) Both (a) and (b) (d) Support fruits

33. Which is a biotic component of environment?

 (a) Plants (b) Animals (c) Microorganisms (d) All of these

34. Which is an aquatic adaptation?

 (a) Streamlined body (b) Light and hollow bones

 (c) Hair on body (d) Gills

35. Choose the odd one from the following options for polar animals adaptation:

 (a)Thick layer of fat under the skin (b) White fur

 (c) Long grasping tail (d) Wide and large feet with sharp claws