

VGR COACHING CENTER

CLASS -9

SCIENCE

MARK 75

PART – A

CHOOSE THE CORRECT ANSWER

1. Rulers, measuring tapes and metre scales are used to measure
 - a. mass
 - b. weight
 - c. time
 - d. length
2. The area under velocity – time graph represents the
 - a) velocity of the moving object.
 - b) displacement covered by the moving object.
 - c) speed of the moving object.
 - d) acceleration of the moving object.
3. The size of an air bubble rising up in water
 - (a) decreases
 - (b) increases
 - (c) remains same
 - (d) may increase or decrease
4. Electric field lines from positive charge and in negative charge.
 - a) start; start
 - b) start; end
 - c) start: end
 - d) end; end
5. Electroplating is an example for
 - a) heating effect
 - b) chemical effect
 - c) flowing effect
 - d) magnetic effect
6. Resistance of a wire depends on,
 - a) temperature
 - b) geometry
 - c) nature of material
 - d) all the above
7. When we mix a drop of ink in water we get a _____
 - a) Heterogeneous Mixture
 - b) Compound
 - c) Homogeneous Mixture
 - d) Suspension
8. The correct electronic configuration of potassium is
 - a) 2,8,9
 - b) 2,8,1
 - c) 2,8,8,1
 - d) 2,8,8,3
9. Identify the animal having four chambered heart.
 - (a) Lizard
 - (b) Snake
 - (c) Crocodile
 - (d) Calotes
10. Water vascular system is found in
 - (a) Hydra
 - (b) Earthworm
 - (c) Star fish
 - (d) Ascaris
11. The fibres consists of
 - a. parenchyma
 - b. sclerenchyma
 - c. collenchyma
 - d. None of above
12. Nerve cell does not contains
 - a. axon
 - b. nerve endings
 - c. tendons
 - d. dendrites

13. The bending of root of a plant in response to water is called _____.
- a. Thigmonasty b. Phototropism c. Hydrotropism d. Photonasty
14. Chlorophyll in a leaf is required for _____.
- a) photosynthesis b) tropic movement c) transpiration d) nastic movement
15. The physician who discovered that scurvy can be cured by ingestion of citrus fruits is _____.
- a) James Lind b) Louis Pasteur c) Charles Darwin d) IsaacNewton

PART-B

ANSWER ANY 10 QUESTION

16. Match the following.
- | | |
|-------------|----------|
| Length | kelvin |
| Mass | metre |
| Time | kilogram |
| Temperature | second |
17. Match the following.
- | | |
|----------------------|------------------------|
| Electric charge | (a) ohm |
| Potential difference | (b) ampere |
| Electric field | (c) coulomb |
| Resistance | (d) newton per coulomb |
| Electric current | (e) volt |
18. Differentiate mass and weight.
19. Distinguish distance and displacement.
20. Name the components in each of the following mixtures.
- i. Ice cream ii. Lemonade iii. Air iv. Soil

21. Draw the structure of oxygen and sulphur atoms.
22. Write the electronic configuration of K and Cl
23. Match the following.

PHYLUM EXAMPLES

- | | |
|---------------------|----------------|
| (A) Coelenterata | (i) Snail |
| (B) Platyhelminthes | (ii) Starfish |
| (C) Echinodermata | (iii) Tapeworm |
| (D) Mollusca | (iv) Hydra |
24. Define taxonomy.

25. Differentiate phototropism from photonasty.

26. Give abbreviations for the following.

ii. ISI _____

iii. FPO _____

iv. AGMARK _____

v. FCI _____

27. Differentiate Kwashiorkar from Marasmus

28. Write any one function of the following Minerals

Calcium b) Sodium

29. Why it is easy to swim in river water than in sea water?

PART-C ANY 10

30. Write the rules that are followed in writing the symbols of units in SI system.

31. Explain a method to find the thickness of a hollow tea cup

32. How are vitamins useful to us? Tabulate the sources, deficiency diseases and symptoms of fat soluble vitamins

33. Differentiate between tropic and nastic Movements

34. Give an account on phylum Arthropoda.

35. Differences between Xylem and Phloem

36. Derive the equations of motion by graphical method.

37. Describe the construction and working of mercury barometer.

38. State the Gay Lussac's law of combining Volumes

39. Complete the following table.

Atomic	Mass	Number of Neutrons	Number of Protons	Number of Electrons	Name of the Element
9	-	10	-	-	-
16	-	16	-	-	-
-	24	-	-	12	Magnesium
-	2	-	1	-	-
-	1	0	1	1	-

40. Write the differences between elements and compounds and give an example for each

41. Differentiate between flat worms and round worms?
42. Compare speed and velocity.

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State Pascal's law.