

VGR COACHING CENTER**CLASS-9TH****SCIENCE - 1,2,10,17****MARK-75****PART-1****CHOOSE THE CORRECT ANSWER 14×1=14**

1. Rulers, measuring tapes and metre scales are used to measure
 - a. mass b. weight c. time d. length
2. 1 metric ton is equal to
 - a. 100 quintals b. 10 quintals c. 1/10 quintals d. 1/100 quintals
3. The centrifugal force is
 - a) a real force. b) the force of reaction of centripetal force.
 - c) a virtual force. d) directed towards the centre of the circular path.
4. 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.
5. Among the following _____ is a mixture
 - a) Common Salt b) Juice c) Carbon dioxide d) Pure Silver
6. When we mix a drop of ink in water we get a _____
 - a) Heterogeneous Mixture b) Compound c) Homogeneous Mixture
 - d) Suspension
7. _____ is essential to perform separation by solvent extraction method.
 - a) Separating funnel b) filter paper c) centrifuge machine d) sieve
8. Identify the animal having four chambered heart.
 - (a) Lizard (b) Snake (c) Crocodile (d) Calotes
9. The animal without skull is
 - (a) Acrania (b) Acephalia (c) Apterina (d) Acoelomate
10. Air sacs and Pneumatic bones are seen in

(a) fish (b) frog (c) bird (d) bat

11. Excretory organ of tape worm is

(a) flame cells (b) nephridia (c) body surface (d) solenocytes

12. Water vascular system is found in

(a) Hydra (b) Earthworm (c) Star fish (d) Ascaris

PART-II

WRITE ANY SEVEN QUESTION Q.NO 22 IS COMPULSORY 7×2=14

13. Match the following.

Length	kelvin
Mass	metre
Time	kilogram
Temperature	second

14. Define least count of any device.

15. Define velocity.

16. Distinguish distance and displacement.

17. Define Sublimation

18. You have just won a medal made of 22-carat gold. Have you just procured a pure substance or impure substance?

19. Define taxonomy.

20. Why are frogs said to be amphibians?

21. Match the following.

PHYLUM EXAMPLES

(A) Coelenterata	(i) Snail
(B) Platyhelminthes	(ii) Starfish
(C) Echinodermata	(iii) Tapeworm
(D) Mollusca	(iv) Hydra

22. A racing car has a uniform acceleration of 4 ms^{-2} . What distance it covers in 10 s after the start?

PART-III**WRITE ANY SEVEN QUESTION Q.NO 32 IS COMPULSORY 7×4=28**

23. Write the rules that are followed in writing the symbols of units in SI system.
24. Differentiate mass and weight.
25. Compare speed and velocity.
26. Explain different types of motion
27. Name the components in each of the following mixtures. i. Ice cream ii. Lemonade iii. Air iv. Soil
28. Differentiate between flat worms and round worms
29. List five characteristic features of fishes.
30. Explain Tyndall effect and Brownian movement with suitable diagram.
31. How is a mixture of common salt, oil and water separated? You can use a combination of different methods
32. a. Find the mass of an object weighing 98 N (2)
b. True or false (2)
 - i. Bipinnaria is the larva of Mollusca.
 - ii. Balanoglossus is a ciliary feeder.

PART-IV**ANSWER THREE QUESTION 3×7=21**

1. a. Define measurement. (2)
b. How will you find the thickness of a one rupee coin? (5)
2. a. What do you understand about negative acceleration? (2)
b. Derive the equations of motion by graphical method. (5)
3. a. Write the differences between elements and compounds and give an example for each (5)
b. List the respiratory organs of amphibians (2)
4. a. Outline the flow charts of Phylum Chordata. (3)
b. Describe the characteristic features of different Prochordates (4)

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