

## VGR COACHING CENTER

CLASS IX

SCIENCE

MARK -75

**I. CHOOSE THE CORRECT ANSWER**

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. Which among the following is not a device to measure mass?  
a. Spring balance b. Beam balance c. Physical balance d. Digital balance
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. 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.
6. Among the following \_\_\_\_\_ is a mixture  
a) Common Salt b) Juice c) Carbon dioxide d) Pure Silver
7. When we mix a drop of ink in water we get a \_\_\_\_\_  
a) Heterogeneous Mixture b) Compound c) Homogeneous Mixture d) Suspension
8. \_\_\_\_\_ is essential to perform separation by solvent extraction method.  
Separating funnel b) filter paper b) centrifuge machine d) sieve
9. . \_\_\_\_\_ has the same properties throughout the sample  
a) Pure substance b) Mixture c) Colloid d) Suspension
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

13. Identify the animal having four chambered heart.

(a) Lizard (b) Snake (c) Crocodile (d) Calotes

14. The animal without skull is

(a) Acrania (b) Acephalia (c) Apteris (d) Acoelomate

### **PART-B ANY 8 QUESTION Q.NO 25 IS COMPULSORY**

15. Match the following.

Length            kelvin

Mass             metre

Time             kilogram

Temperature    second

16. True or false

A) In everyday life, we use the term weight instead of mass.

B) A physical balance is more sensitive than a beam balance.

17. Define least count of any device.

18. What do you understand about negative acceleration?

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. Define taxonomy.

22. List the respiratory organs of amphibians.

23. Match the following.

### **PHYLUM EXAMPLES**

(A) Coelenterata      (i) Snail

- (B) Platyhelminthes (ii) Starfish  
(C) Echinodermata (iii) Tapeworm  
(D) Mollusca (iv) Hydra

24. Why are frogs said to be amphibians?  
25. Find the mass of an object weighing 98 N.

**PART-C ANY 7 Q.NO 35 COPULSORY 4 MARK QUESTION**

26. Write the rules that are followed in writing the symbols of units in SI system.  
27. A) Define measurement.  
B) Differentiate mass and weight.  
28. Compare speed and velocity.  
29. Explain different types of motion.  
30. How are homogenous solutions different from heterogeneous solution? Explain with examples.  
31. Differentiate between flat worms and round worms?  
32. A) Differentiate between absorption and adsorption.  
B) Define Sublimation.  
33. List five characteristic features of fishes.  
34. Outline the flow charts of Phylum Chordata.  
35. An athlete completes one round of a circular track of diameter 200 m in 40 s. What will be the distance covered and the displacement at the end of 2 m and 20 s?  
36. Comment on the aquatic and terrestrial habits of amphibians

**6 MARK QUESTION ANY 3**

37. Explain a method to find the thickness of a hollow tea cup.  
38. Derive the equations of motion by graphical method.  
39. Write the differences between elements and compounds and give an example for each.  
40. Explain Tyndall effect and Brownian movement with suitable diagram.  
41. Give an account on phylum Arthropoda.

42. A) How will you separate a mixture containing saw dust, naphthalene and iron filings

B) What is meant by uniform circular motion? Give two examples of uniform circular motion.