

CLASS 10THVGR COACHING CENTER
SCIENCE
CHAPTER 3,4,8,9,13,14,15

MARK-75

CHOOSE THE CORRECT ANSWER

PART-A 12×1=12

1. If a substance is heated or cooled, the change in mass of that substance is
a) positive b) negative c) zero d) none of the above
2. I unit of resistance is
a) mho b) joule c) ohm d) ohm meter
3. Kilowatt hour is the unit of
a) resistivity b) conductivity c) electrical energy d) electrical power,
4. _____ group contains the member of halogen family.
a) 17th b) 15th c) 18th d) 16th
5. _____ is an important metal to form amalgam.
a) Ag b) Hg c) Mg d) Al
6. Which of the following is the universal solvent?
a. Acetone b. Benzene c. Water d. Alcohol
7. Which of the following is hygroscopic in nature?
a. ferric chloride b. copper sulphate penta hydrate c. silica gel d. none of the above
8. Mammals are _____ animals.
a) Cold blooded b) Warm blooded c) Poikilothermic d) All the above
9. The brain of leech lies above the
a) Mouth b) Buccal Cavity c) Pharynx d) Crop
10. During transpiration there is loss of
a) carbon dioxide b) oxygen c) water d) none of the above
11. Which of the following process requires energy?
a) active transport b) diffusion c) osmosis d) all of them
12. Bipolar neurons are found in
(a) retina of eye (b) cerebral cortex (c) embryo (d) respiratory epithelium

PART-B WRITE ANY 7 Q.NO 22 IS COMPULSORY

13. State Ohm's law.
14. Define one calorie.
15. Match the items in column-I to the items in column-II:

Column - I	Column - II
electric current (a) volt	
potential difference (b) ohm meter (
specific resistance (c) watt	
electrical power (d) joule	
electrical energy (e) ampere	
16. What is mean by binary solution
17. Write the dental formula of rabbit
18. What is cohesion?
19. What are the structures involved in the protection of brain?
20. A solution is prepared by dissolving 45 g of sugar in 180 g of water. Calculate the mass percentage of solute
21. Who discovered Rh factor? Why was it named so?
22. What is the importance of valves in the heart?

PART-C WRITE ANY 7 Q.NO 40 IS COMPULSORY

23. In what way hygroscopic substances differ from deliquescent substances.
24. List out the parasitic adaptations in leech
25. What is transpiration? Give the importance of transpiration
26. Enumerate the functions of blood
27. A) Distinguish between ideal gas and real gas. (2)
b) State Boyle's law (2)
28. A torch bulb is rated at 3 V and 600 mA. Calculate it's a) power b) resistance c) energy consumed if it is used for 4 hour.
29. a) What is rust? Give the equation for formation of rust. (2)
b) State two conditions necessary for rusting of iron (2)
30. a) Give an example for conditioned reflexes. (2)
b) Differentiate between 1. Voluntary and involuntary actions. (2)
31. Advantage of LED light and LED TV
32. Explain the male reproductive system of rabbit with a labelled diagram.

PART-D WRITE ALL QUESTION

33. a) Derive the ideal gas equation. (4)

b) With the help of a circuit diagram derive the formula for the resultant resistance of three resistances connected: a) in series (3)

OR

a) State Joule's law of heating. (2)

b) An alloy of nickel and chromium is used as the heating element. Why? (2)

c) How does a fuse wire protect electrical appliances? (2)

d) Define one ampere (1)

34. a) Explain smelting process (4)

b) The electronic configuration of metal A is 2,8,18,1. The metal A when exposed to air and moisture forms B a green layered compound. A with con. H_2SO_4 forms C and D along with water. D is a gaseous compound. Find A, B, C and D. (3)

OR

a) Give an example each i) gas in liquid ii) solid in liquid iii) solid in solid iv) gas in gas (2)

b) What is aqueous and non-aqueous solution? Give an example (2)

c) Define Hydrated salt. (3)

35. A) Define reflex arc (2)

b) With a neat labelled diagram explain the structure of a neuron (5)

OR

A) Illustrate the structure and functions of brain (2)

B) How are arteries and veins structurally different from one another? (5)

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