VNR9S

Virudhunagar District

Common Half Yearly Examination - December 2024

Standard 9

SCIENCE Marks: 75 Time: 3.00 Hrs.

Part - I

Choose the correct answer:	12×1=12
1) 1 metric ton is equal to	
a) 100 quintals b) 10 quintals c) 1/10 quintals d)) 1/100 quintals
2) Electroplating is an example for	
a) Heating effect b) Chemical effect	
c) Flowing effect d) Magnetic effect	
3) is used as reflectors in torch light.	
a) Concave mirror b) Plane mirror	
c) Convex mirror d) Spherical mirror	
4) The unit of magnetic flux density is	
a) weber / meter c) weber / meter ²	d) weber. meter ²
5) has the same properties throughout the sample.	
a) Pure substance b) Mixture c) Colloid	d) Suspension
6) Change in the number of neutrons in an atom changes to	
a) an ion b) an isotope c) an isobar d) a	nother element
Bond formed between a metal and non metal atom is usually	/ •
a) Ionic bond b) Covalent bond c) Coordinate bond	
The hydrated salt of copper sulphate has colour.	
a) Red b) White c) Blue	d) Green
9) The animal without skull is	
a) Acrania b) Acephalia c) Apteria	d) Acoelomate
10) Bile helps in the digestion of	
a) Protein b) Sugar c) Fats	d) Carbohydrates
11) Food and Adulteration Act was enforced by Government of I	India in the year
a) 1964 b) 1954 c) 1950	d) 1963
12) The organ affected by Jaundice is	
a) liver b) lungs c) kidney	d) brain
Part - II	
Answer any 7 questions in very short:	7×2=14
[Question No. 22 is compulsory]	

Ans

[Qu

13) Define standard unit.

14) Match it:

a) Electric charge ampere b) Electric field ohm

coulomb c) Resistance

d) Electric current newton per coulomb

15) State Pascal's law.

16) Define sublimation.

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- 17) Write a note on different types on bonds.
- 18) What are the various uses of Aquaregia?
- 19) Why are the frogs said to be amphibians?
- 20) Define Transpiration.
- 21) Expand the following:
 - (1) ORS (2) BCG
- 22) Light enters from air into a glass plate having refractive index 1.5. What is the speed of light in glass?

Part - III

Answer any 7 questions in very short:

7×4=28

- Question No. 32 is compulsory]
 - 23) Explain different types of motion.
 - 24) a) State the laws of flotation.
 - b) List the safety features while handling electricity.
 - 25) State the advantages of AC over DC.
 - 26) State any five features of modern periodic table.
 - 27) Explain the postulates of Bohr's atomic model.
 - 28) Write any four uses of acids.
 - 29) Differentiate between tropic and nastic movement.
 - 30) Explain the role of food control agencies in India.
 - 31) Explain the structure of Nephron.
 - 32) Find the oxidation number of the elements in the following compounds.
 - a) Mn in MnSO
 - b) N in HNO3

Part - IV

Answer all the questions:

3×7=21

- LANS HEALT OF 33) a) How will you find the thickness of a one rupee coin?
 - b) Write the spherical mirror formula and explain the meaning of each symbol used in it. (OR)

Explain two types of transformer.

34) Explain Tyndall effect and Brownian movement with suitable diagram.

(OR)

List down the differences between Ionic and Covalent compounds.

35) List out the differences between Mitosis and Meiosis.

(OR)

- a) Differentiate Macronutrients from Micronutrients.
- b) Give an account of classification of bacteria based on the shape.