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9305

COMMON HALF YEARLY EXAMINATION - 2022

Standard - IX

Time : 3.00 hrs

SCIENCE

Marks: 75

12×1=12

I. Choose the correct answer:-

- 1) 1 metric ton is equal to _____
a) 100 quintals b) 10 quintals c) 1/10 quintals d) 1/100 quintals
- 2) Clouds float in atmosphere because of their low _____
a) density b) pressure c) velocity d) mass
- 3) In current electricity, a positive charge refers to _____
a) presence of electron b) presence of proton
c) absence of electron d) absence of proton
- 4) _____ is used as reflectors in torchlight
a) concave mirror b) plane mirror c) convex mirror
- 5) Elements in the modern periodic table are arranged in _____ groups and _____ periods.
a) 7, 18 b) 18, 7 c) 17, 8 d) 8, 17
- 6) Bond formed between a metal and non-metal atom is usually _____
a) Ionic bond b) Covalent bond c) Coordinate bond
- 7) Acid turn blue litmus papers to _____ (green, red, orange)
- 8) Mesoglea is present in _____
a) Porifera b) Coelenterata c) Annelida d) Arthropoda
- 9) Smooth muscles occur in _____
a) Uterus b) artery c) Vein d) All of the above
- 10) Transpiration takes place through _____
a) fruit b) seed c) flowers d) stomata
- 11) Which of the following substance is not a constituent of sweat?
a) Urea b) Protein c) Water d) Salt
- 12) An internal factor responsible for spoilage of food is _____
a) wax coating b) contaminated utensils
c) moisture content in food d) synthetic preservatives

Part - II

II. Answer any 7 of the following questions. (qn.22 is compulsory)

7×2=14

- 13) Define Measurement.
- 14) State Pascal's law.
- 15) State whether true or false. If false correct the statement.
a) current can produce magnetic field.
b) A transformer can step up direct current
- 16) Define Sublimation.
- 17) Write the electronic configuration of K and Cl.
- 18) Why are frogs said to be amphibians?

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- 19) Why do we sweat?
- 20) Assertion and reason type question
Assertion: Haemoglobin Contains iron
Reason: Iron deficiency leads to anaemia.
a) If both are true. Reason explains assertion.
b) If both are true. but Reason is not correct explanation.
c) If Assertion is true but Reason is false.
d) If both Assertion and Reason is false.
- 21) Expand the following: 1. ORS 2. WHO
- 22) Find the oxidation number of the elements in the following compounds
a) C in CO_2 b) Mn in MnSO_4 .

Part - III

III. Answer any 7 of the following questions. (qn.25 is compulsory) 7×4=28

- 23) Differentiate mass and weight.
- 24) State Fleming's Left Hand Rule.
- 25) a) Complete the diagram to show how a concave mirror forms the image of the object.
b) What is the nature of the image?



- 26) State any Five features of Modern Periodic table.
- 27) Write a note on different types on bonds.
- 28) What is neutralization reactions? Give an example.
- 29) Match the following
- | | | | |
|--------------------|---|-----------|----------|
| a) Coelenterata | - | Snail | d |
| b) Platyhelminthes | - | Star fish | c |
| c) Echinodermata | - | Tapeworm | b |
| d) Mollusca | - | Hydra | a |
- 30) List five characteristic features of fishes?
- 31) What is skeletal connective tissues? How is helpful in the functioning of our body?
- 32) Explain any two methods of food preservation?

Part - IV

IV. Answer all the questions:-

3×7=21

- 33) Explain different types of motion. [or]
Explain the construction and working of a hydrometer with diagram.
- 34) Write the differences between elements and compounds and give an example for each. [or]
Write any four uses of acids and bases.
- 35) Describe the alimentary canal of man. [or]
Give an account of classification of bacteria based on the shape.
