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COMMON HALF YEARLY EXAMINATION - 2024

Standard - IX

SCIENCE

Marks:75

Time: 3.00 hrs

Part - I

I Choose the correct answer

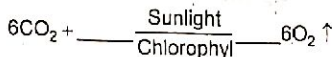
12x1=12

- Clouds float in atmosphere because of their low _____.
a) density b) pressure c) velocity d) Mass
- Resistance of a wire depends on _____.
a) temperature b) geometry c) nature of material d) all the above
- Large _____ mirrors are used to concentrate sunlight to produce heat in Solar furnaces.
a) concave b) plane c) convex d) None of the above
- When we mix a drop of ink in water we get a _____.
a) Heterogenous mixture b) compound
c) homogenous mixture d) suspension
- Elements in the modern periodic table are arranged in _____ groups and _____ periods.
a) 7, 18 b) 18, 7 c) 17, 8 d) 8, 17
- Elements with stable electronic configurations have eight electrons in their valence shell. They are _____.
a) halogens b) metals c) noble gases d) non-metals
- Identify the animal having four chambered heart.
a) Lizard b) Snake c) Crocodile d) Calotes
- Which of the following is a complex tissue?
a) Parenchyma b) Collenchyma c) Xylem d) Sclerenchyma
- Transpiration takes place through _____.
a) fruit b) seed c) flower d) stomata
- Food and Adulteration act was enforced by Government of India in the year _____.
a) 1964 b) 1954 c) 1950 d) 1963
- The organ affected by jaundice is _____.
a) Liver b) Lungs c) Kidney d) brain
- _____ is a structured delivery of information.
a) Slideshow b) Page c) Word Art d) Presentation

Part - II

II Answer any Seven of the following questions. Q.No. 22 is compulsory 7x2=14

- Define measurement.
- State Pascal's Law.
- What is meant by magnification? Write its expression?
- Fill in the blanks:-
a) An example of a substance that sublimates is _____.
b) In petroleum refining, the method of separation used in _____.
- NaCl is insoluble in carbon tetrachloride but Soluble in water. Give reason?
- What are the uses of plaster of Paris?
- Why are frogs said to be amphibians?
- Complete the following



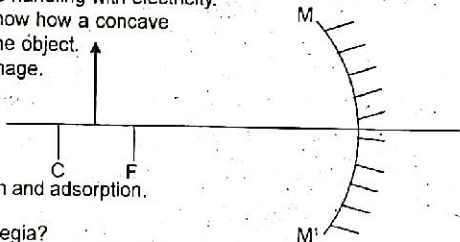
21. What is Libre office impress.
 22. Calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5A.

Part III

III Answer any Seven of the following. Q.No. 32 is compulsory

7x4=28

23. What is meant by uniform circular motion? Give two examples of uniform circular motion.
 24. a) State Ohm's Law
 b) List the safety features while handling with electricity.
 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. Differentiate between absorption and adsorption.
 27. a) Define aqua regia.
 b) What are the uses of aqua regia?
 28. What are the Limitations of Mendeleev's periodic table.
 29. Match the following
- | Column - A | Column - B |
|------------|--------------------|
| 1) Calcium | a) Goitre |
| 2) Sodium | b) Anaemia |
| 3) Iron | c) Osteoporosis |
| 4) Iodine | d) Muscular Cramps |
30. a) What is triple antigen? Mention the disease which can be prevented?
 b) Name two common Mosquitoes and the disease they transmit.
 31. State whether True (or) False. If false write the correct statements.
 a) Phloem is made up of Tracheids.
 b) Vessels are found in Collenchyma.
 32. Draw the nervous tissue and name the parts.

Part IV

IV Answer all the questions.

3x7=21

33. a) How will you find the thickness of a one rupee coin? (OR)
 b) i) State Heming's Left hand rule?
 ii) What are the advantages of AC over DC?
 34. a) Explain the postulates of Bohr's atomic Model. (OR)
 b) List down the differences between ionic and Covalent compounds.
 35. a) Give an account on phylum Arthropoda. (OR)
 b) i) What is an adulterant?
 ii) Differentiate
 a) Kwashiorkor from Marasmus.
 b) Macronutrients from micronutrients.