

9728

COMMON HALF YEARLY EXAMINATION - 2023**A****Standard - IX****Time : 3.00 hrs****SCIENCE****Marks: 75****Part - I****I. Choose the correct answer:-****12×1=12**

- 1) Which among the following is not a device to measure mass?
a) spring balance b) beam balance c) physical balance d) digital balance
- 2) Clouds float in atmosphere because of their low
a) density b) pressure c) velocity d) mass
- 3) Resistance of a wire depends on
a) temperature b) geometry c) nature of material d) all the above
- 4) When the reflecting surface is curved outwards the mirror formed will be
a) concave mirror b) convex mirror c) plane mirror
- 5) _____ is essential to perform reparation by solvent extraction method
a) seperating funnel b) filter paper c) centrifuge machine d) sieve
- 6) The term nucleons refer to
a) protons and electrons b) only neutrons
c) electrons and neutrons d) protons and neutrons
- 7) Bond formed between a metal and non metal atom is usually _____
a) ionic bond b) Covalent bond c) coordinate bond
- 8) The hydrated salt of copper sulphate has _____ colour.
a) red b) white c) black d) blue
- 9) Air sacs and pneumatic bones are seen in
a) fish b) frog c) bird d) bat
- 10) Smooth muscles occur in
a) uterus b) artery c) vein d) all of the above
- 11) Which one of the following substance is not a constituent of sweat?
a) urea b) protein c) water d) salt
- 12) The organ affected by jaundice is
a) liver b) lungs c) kidney d) brain

Part - II**II. Answer any 7 of the following:- (Question number 22 is compulsory) 7×2=14**

- 13) Define least count of any device.
- 14) What is meant by atmospheric pressure?
- 15) Name any two appliance which work under the principle of heating effect of current.
- 16) State whether true or false. If false, correct the statement.
a) A generator converts mechanical energy into electrical energy.
b) A transformer can step up direct current.
- 17) A few drops of 'Dettol' when added to water the mixture turns turbid. Why?
- 18) Write a note on different types of bond.

(2)

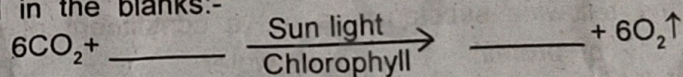
IX SCIENCE

- 19) Match the following:-
- | | | |
|------------------|---|--------------|
| a) Sclereids | - | Chlorenchyma |
| b) Chloroplast | - | Sclerenchyma |
| c) Simple tissue | - | Xylem |
| d) Tracheids | - | Collenchyma |
- 20) Expand the following:- a) ISI b) WHO
- 21) Name two common mosquitoes and the diseases they transmit.
- 22) Find the oxidation number of the elements in the following:-
- | | |
|-------------------------|----------------------------|
| a) C in CO ₂ | b) Mn in MnSO ₄ |
|-------------------------|----------------------------|

Part - III

III. Answer any 7 of the following:- (Question number 32 is compulsory) 7×4=28

- 23) Differentiate mass and weight.
- 24) State the laws of floatation.
- 25) List the safety features while handling electricity.
- 26) Draw and label the diagram of an AC generator.
- 27) Write the difference between elements and compounds and give an example for each.
- 28) Match the following:-
- | | | |
|---------------|---|-----------------------|
| a) Dalton | - | Hydrogen atom model |
| b) Chadwick | - | Discovery of nucleus |
| c) Rutherford | - | First atomic theory |
| d) Neils Bohr | - | Plum pudding model |
| | - | Discovery of neutrons |
- 29) a) Define aquaregia.
b) What are the uses of Plaster of Paris?
- 30) List five characteristic features of fisher.
- 31) a) What is Chlorophyll?
b) Fill in the blanks:-



- 32) Give an account of classification of bacteria based on the shape.

Part - IV

IV. Answer in detail:-

- 33) a) Explain different types of motion.
b) Explain the two types of transformer.
- 34) a) i) Draw the structure of oxygen and sulphur atoms.
ii) Write the electronic configuration of K and Cl.
b) Write the uses of acids and bases.
- 35) a) Give an account of Phylum Arthropoda.
b) Describe the alimentary canal of man.

3×7=21

[or]

[or]

[or]

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