

COMMON QUARTERLEY EXAMINATION - 2019

V

Standard IX

Reg.No.

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Time: 2.30 hours.

SCIENCE

Marks: 75

Part - A

I. Choose the correct answer:

12 x 1 = 12

- One light year _____
a) 1.496×10^{11} m b) 9.46×10^{15} m c) 1.496×10^{-11} m d) 9.46×10^{-15} m
- Clouds float in atmosphere because of their low
a) density b) pressure c) velocity d) mass
- The current flowing through a lamp is 0.2 A. If the lamp switched on for one hour, what is the total electric charge that passes through the lamp?
a) 720 C b) 360 C c) 740 C d) 380 C
- The unit of magnetic flux density is
a) Weber b) Weber / Metre c) Weber / Meter² d) Weber.Meter²
- _____ is essential to perform separation by solvent extraction method.
a) separating funnel b) filter paper c) centrifuge machine d) sieve
- The correct electronic configuration of magnesium is _____
a) 2,8,2 b) 2,8,1 c) 2,8,8,1 d) 2,8,8,3
- The element that would form anion by gaining electrons in a chemical reaction is _____
a) potassium b) calcium c) fluorine d) iron
- Excretory organ of tape worm is
a) flame cells b) nephridia c) body surface d) solenocytes
- Nerve cells do not undergo cell division due to the absence of
a) centrioles b) nucleus c) mitochondria d) ribosome
- Which type of movement seen in Tulip flowers _____
a) thigmonasty b) thermonasty c) photonasty d) geotropism
- Food and Adulteration Act was enforced by Government of India in the year _____
a) 1964 b) 1954 c) 1950 d) 1963
- Data processing involves _____ steps.
a) seven b) four c) six d) eight

Part - B

II. Answer any 7 questions: (Ques.No.22 is compulsory)

7 x 2 = 14

- What is Astronomical unit?
- Match the following:
 - Electric charge a) Ohm
 - Potential difference b) Ampere
 - Resistance c) Coulomb
 - Electric current d) Volt
- Draw the structure of oxygen and sulphur atoms.
- Fill in the blanks:
 - Noble gases belong to group of the periodic table.
 - Example for liquid metal is _____

17. Which are not true cells in the blood? Why?
18. Draw the diagram of stomata and label the part.
19. Why do we sweat?
20. State whether true or false. If false, correct the statement.
 - a) Iron is required for the proper functioning of thyroid gland.
 - b) Vitamins are required in large quantities for normal functioning of the body.
21. What is Data processing?
22. A racing car has a uniform acceleration of 4 ms^{-2} . What distance it covers in 10 s after the start?

Part - C**III. Answer any 7 questions: (Ques.No.32 is compulsory)**

7 x 4 = 28

23. Differentiate mass and weight.
24. a) On what factors the pressure exerted by the liquid depends on?
b) State the laws of floatation.
25. Explain the Heating effect of current.
26. Differentiate suspension and colloidal solution.
27. Write limitations Mendaleev's periodic table.
28. Give an account on phylum Arthropoda.
29. List out the differences between mitosis and meiosis.
30. Differentiate between tropic and nastic movement.s
31. Explain any two methods of food preservation.
32. Find the oxidation number of the elements in the following compounds.
 - a) C in CO_2
 - b) Mn in MnSO_4
 - c) N in HNO_3

Part - D**IV. Answer all the questions:**

3 x 7 = 21

(Draw diagrams wherever necessary)

33. a) Derive the equations of motion of graphical method.
(or)
b) Explain the principle, construction and working of a dc motor.
34. a) i) Explain the postulates of Bohr's atomic model
ii) Write the limitations of Bohr's model
(or)
b) Explain the ionic bond with example.
35. a) Write the difference between meristematic and permanent tissue.
(or)
b) Describe the alimentary canal of man.
