



CHEYYAR TUITION CENTRE

CHEYYAR ACADEMY



Register Number :

0091315

COMMON ANNUAL EXAMINATION - 2024

STD: 9

SCIENCE

Marks : 75

Time : 2.30 hrs

PART-I

Answer all the question:-

12x1=12

1. Clouds float in atmosphere because of their low _____
a) density b) pressure c) velocity d) mass
2. Electroplating is an example for _____
a) heating effect b) chemical effect c) flowing effect d) magnetic effect
3. The sound waves travel faster _____
a) in liquids b) in gas c) in solids d) in vacuum
4. Ceres is a _____ a) meteor b) star c) planet d) asteroid
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. Number of valence electrons in carbon is _____. a) 2 b) 4 c) 3 d) 5
7. A phenomenon in which an element exists in different modification in same physical state is called _____
a) Isomerism b) Allotropy c) catenation d) Crystallinity
8. One Nanometre is _____
a) 10^{-7} metre b) 10^{-8} metre c) 10^{-6} metre d) 10^{-9} metre
9. Transpiration takes place through _____
a) fruit b) seed c) flower d) stomata
10. The structural and functional unit of the kidney is _____
a) villi b) liver c) nephron d) ureter
11. Which of the following is transmitted through air?
a) Tuberculosis b) Meningitis c) Typhoid d) Cholera
12. The symbiotic association of fungi and vascular plants is _____
a) Lichen b) Rhizobium c) Mycorrhizae d) Azotobacter

PART-II

Answer any 7 of the following : Q.No.22 compulsory.

7x2=14

13. Differentiate mass and weight.
14. What is specific heat capacity?
15. i) The SI unit of magnetic field induction is _____
ii) A device for producing electric current is _____
16. What is meant by supersonic speed?
17. Define sublimation?
18. What are the uses of plaster of paris?
19. What is nematocyst?

20. Match it:

- | | | |
|-----------|---|--------------------|
| Skin | : | a) Urine |
| Lungs | : | b) Sweat |
| Intestine | : | c) Carbon dioxide |
| Kidneys | : | d) Undigested food |

21. What is an adulterant?

22. Calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5 A.

PART-III

Answer any 7 questions : Q.No.32 is compulsory.

7x4=28

23. Explain different types of motion?
24. What are the changes of state in water? Explain.
25. Explain Tyndal effect and Brownian movement with suitable diagram.
26. a) Give example for liquid metal.
b) What are metalloids?
27. a) Write all possible isomers of C_2H_6O
b) Why are one-time use and throw away plastic harmful?
28. List of four characteristic features of fishes?
29. How will you differentiate the different types of transpiration?
30. Describe the alimentary canal of man?
31. List the medicinal importance of honey?
32. a) Write the need of standard unit
b) How will you measure the least count of vernier caliper?

PART-IV

Answer all the questions. Draw diagrams wherever necessary. 3x7=21

33. Explain the construction and working of hydrometer with diagram?
(or)

Explain the principle, construction and working of a DC motor?

34. a) Explain the postulates of Bohr's atomic model.
b) What are Isotopes? (or)
a) Define aquaregia.
b) Sulphuric acid is called king of chemicals. Why is it called so?
c) Write any two uses of bases.
35. Write about elements of xylem. (or)
a) What are the uses of recycled water?
b) What is IUCN?
c) How does a bad adapt itself to its habitat?

Std : 9 Science

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ANNUAL EXAMINATION - 2024

9 - STD

SCIENCE

Time: 3.00 Hrs

Marks: 75

PART - A

12 X 1 = 12

Answer all the question.

- Which among the following is not a device to measure mass?
(a) Spring balance (b) Beam balance
(c) Physical balance (d) Digital balance
- Resistance of a wire depends on,
(a) temperature (e) nature of material
(b) geometry (d) all the above
- Which of the following is not a part of outer solar system?
(a) Mercury (b) Saturn
(c) Uranus (d) Neptune
- Elements in the modern periodic table are arranged in groups and periods.
(a) 7, 18 (b) 18, 7 (c) 17, 8 (d) 8, 17
- Graphene is one atom thick layer of carbon obtained from
(a) diamond (b) fullerene
(c) graphite (d) gas carbon
- Radio chemistry deals with
(a) oxidants (b) batteries
(c) isotopes (d) nanoparticles
- The animal without skull is
(a) Acrania (b) Acephalia
(c) Apterla (d) Acoelomate
- Chlorophyllin a leaf is required for
(a) photosynthesis (b) tropic movement
(c) transpiration (d) nastic movement
- The structural and functional unit of the kidney is
(a) villi (b) liver (c) nephron (d) ureter
- Which of the following is transmitted through air?
(a) Tuberculosis (b) Meningitis (c) Typhoid (d) Cholera
- The symbiotic association of fungi and vascular plants is
(a) Lichen (b) Rhizobium (c) Mycorrhizae (d) Azotobacter
- is used to Insert attractive text in the slide.
(a) slide Show (b) Word Art (c) Text (d) Header and Footer

PART - B

Answer any seven question. (Question no 22 is compulsory) 7 X 2 = 14

- Why it is easy to swim in sea water than in river water?
- State Fleming's Left Hand Rule
- Fill in the blanks.
a. The mirror used in search light is
b. The radius of curvature of a concave mirror whose focal length is 5cm is
- What is meant by super sonic speed?

17. Define Sublimation

18. What are the uses of Plaster of Paris?

19. What is nematocyst?

20. Match the following

Organ	Elimination
Skin	a. Urine
Lungs	b. Sweat
Intestine	c. Carbon dioxide
Kidneys	d. Undigested food

21. What is an adulterant?

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 - C

Answer any seven questions. (Question no 32 is compulsory) 7 X 4 = 28

- Explain different types of motion.
- Differentiate mass and weight.
- Explain the Tyndall effect and Brownian movement with a suitable diagram.
- State any five features of the modern periodic table.
- a) Write all possible isomers of C_4H_{10}
b) Why are one-time use and throwaway plastics harmful?
- List five characteristic features of fishes.
- How will you differentiate the different types of transpiration?
- Explain the role of food control agencies in India.
- List the medicinal importance, of honey.
- Find the oxidation number of the elements in the following compounds.
(a) C in CO_2 (b) Mn in $MnSO_4$

PART - D

Answer all the questions.

3 X 7 = 21

- a) Explain the construction and working of a hydrometer with a diagram.
(OR)
b) Explain how do SONAR works?
- a) Explain the postulates of Bohr's atomic model
b) Draw the structure of oxygen and sulphur.
(OR)
c) List down the differences between Ionic and Covalent compounds.
- a) Give an account on phylum Arthropoda.
(OR)
b) Describe the processes involved in the water cycle.
c) What is IUCN? What is the vision of IUCN?

COMMON ANNUAL EXAMINATION - 2024

Std - IX

SCIENCE

Marks:75

Time : 3.00 Hours

Part - I

Choose the correct answer:

12 x 1 = 12

- Clouds float in atmosphere because of their low
a) density b) pressure c) velocity d) mass
- Electroplating is an example for
a) heating effect b) chemical effect c) flowing effect d) magnetic effect
- A device in which the loss of heat due to conduction, convection and radiation
a) solar cell b) solar cooker c) thermometer d) thermos flask
- Ceres is a
a) meteor b) star c) planet d) Asteroid
- Elements in the modern periodic table are arranged in groups and periods.
a) 7, 18 b) 18, 7 c) 17, 8 d) 8, 17
- The hydrated salt of copper sulphate has colour.
a) red b) white c) blue d) green
- Carbon forms large number of organic compounds due to
a) allotropy b) isomerism c) tetra valency d) catenation
- One nanometer is
a) 10^{-2} metre b) 10^8 metre c) 10^6 metre d) 10^9 metre
- Transpiration takes place through
a) fruit b) seed c) flower d) stomata
- The structural and functions unit of the kidney is
a) villi b) liver c) nephron d) ureter
- is the method of growing plants without soil.
a) horticulture b) hydroponics c) pomology d) none of these
- The atmospheric carbon-di-oxide enters into the plants through the process of
a) photosynthesis b) assimilation c) respiration d) decomposition

Part - II

Answer any 7 questions. (Question Number 22 compulsory)

7 x 2 = 14

- Why it is easy to swim in river water than in sea water?

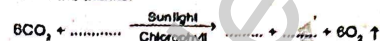
- Match the following

- | | | |
|--------------------|---|--|
| 1. Light bulb | - | |
| 2. Fixed resistor | - | |
| 3. Coil of wire | - | |
| 4. Earth connector | - | |

- What is a satellite? What are the two types of satellites?
- Define sublimation?
- What are the uses of "Plaster of Paris"?
- Differentiate graphite and diamond.

IX-SCI

- Fill in the blanks:



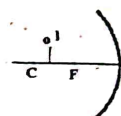
- Expend the following
i) ORS ii) WHO iii) HIV iv) BCG
- State whether true or false. If false correct the statement.
a) Nitrogen is a greenhouse gas
b) Bats are the only mammals that can fly.
- Find the oxidation number of the elements in the following compounds. C in CO_2

Part - III

Answer any 7 questions (Question Number 32 compulsory):

7 x 4 = 28

- Differentiate mass and weight.
- Concave mirrors are used by dentists to examine teeth. Why?
- Complete the diagram to show how a concave mirror forms the image of the object.



- What is meant by supersonic speed?
- Why do people prefer wearing white clothes during summer?
- Write the difference between elements and compounds and give an example for each.
- Write all possible isomers of C_4H_{10}
- Why are one-time use and throwaway plastics harmful?
- What is radio carbon dating?
- Sudha met with a fire accident. What kind of drug(s), she must take?
- List five characteristics features of fishes.
- Why your doctor advises you to drink plenty of water?
- Differentiate: Kwashiorkor from Marasmus
- List the medicinal importance of honey.
- Find the mass of an object weighing 98N.
- Calculate the amount of charges that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5A.

Part - IV

Answer all the questions. Draw diagrams wherever necessary.

3 x 7 = 21

- Explain the construction and working of a hydrometer with diagram.

Explain how does SONAR work.

- Explain the postulates of Bohr's atomic model.

i) What are isotopes?

ii) Write any five uses of salts.

ii) Sulphuric acid is called "King of chemicals". Why is it called so?

- Explain the structure of kidney and the steps involved in the formation of urine. (OR)
Define mushroom culture. Explain the mushroom cultivation methods.

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