

VNR8S

Virudhunagar District
Common Half Yearly Examination - December 2023

801400

Standard - 8

SCIENCE

Time Allowed: 2.30 Hours

Maximum Marks: 100

I. Choose the correct answer:**12×1=12**

- Electric current is a _____ quantity.
 - base
 - supplementary
 - derived
 - professional
- The distance from the pole to the focus is called _____.
 - pole length
 - focal length
 - principle axis
 - none of the above
- Heat is a form of _____.
 - electrical energy
 - gravitational energy
 - thermal energy
 - none of these
- The range of audible frequency for the human ear is
 - 2 Hz to 2000 Hz
 - 20 Hz to 2000 Hz
 - 20 Hz to 20000 Hz
 - 200 Hz to 20000 Hz
- Pencil lead contains
 - graphite
 - diamond
 - aluminium
 - sulphur
- Burning of paper is a _____ change.
 - physical
 - chemical
 - physical and chemical
 - neutral
- Which of the following is a water pollutant?
 - Lead
 - Alum
 - Oxygen
 - Chlorine
- Acid mixed with base forms _____.
 - salt and water
 - salt
 - water
 - no reaction
- _____ is a prokaryotic microorganisms.
 - Virus
 - Algae
 - Fungi
 - Bacteria
- One of the following is an edible mushroom
 - Polyporus
 - Agaricus
 - Penicillium
 - Aspergillus
- _____ joints are immovable.
 - Shoulder and arm
 - Knee and joint
 - Upper jaw and skull
 - Lower jaw and upper jaw
- Adam's Apple is the growth of the _____.
 - Pharynx
 - Thyroid
 - Larynx
 - Parathyroid

II. Fill in the blanks:**5×1=5**

- Hydraulic lift works under the principle of _____.
- _____ is a device that protects building from lightning Strike.
- Dry ice is used as a _____.
- The largest cell is egg of an _____.
- _____ muscle makes pupil of eyes wider.

III. State True or False. If false correct the statement:**5×1=5**

- The process of converting a substance from solid state to gaseous state is called condensation.
- Water can conduct electricity.
- Hibiscus flower is an example for natural indicator.
- Human beings are warm blooded in nature.
- Chicken pox is a communicable disease.

IV. Match the following:**5×1=5**

- | | | |
|-----------------------|---|------------------|
| 23. Universal solvent | - | Water pollutant |
| 24. Hard water | - | Kills germs |
| 25. Boiling | - | Ozonisation |
| 26. Sterilization | - | Water |
| 27. Sewage | - | Stomach ailments |

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V. Answer any 10 questions in very short.

10×2=20

Question No.30 compulsory.

28. State the laws of reflection.
29. Give some uses of electroplating.
30. A sound has a frequency of 5Hz and a speed of 25 ms⁻¹. What is the wavelength of the sound?
31. What is electric current?
32. Name the elements with the following symbols.
a) Na b) w c) Ba d) Al
33. What is pollution?
34. What is global warming?
35. State the difference between acids and bases.
36. Match the following:

cyanophyceae	-	Green algae
Chlorophyceae	-	Blue green algae
Phaeophyceae	-	Red algae
Rhodophyceae	-	Brown algae
37. Tabulate the difference between aerobic and anaerobic respiration.
38. What is skeleton?
39. List out the changes which occur during puberty.
40. Who discovered penicillin?

VI. Answer any 8 questions briefly:

8×4=32

41. a) Define friction. Give two examples.
b) State Pascal's law.
42. Explain series and parallel circuit.
43. a) Define specific heat capacity.
b) Name the three types of heat transfer.
44. List out the uses of Nitrogen.
45. Write the names of the following compounds.
a) CO b) N₂O c) NO₂ d) PCl₅
46. a) Define freezing point.
b) Define boiling point.
47. Mention the uses of the following compounds.
a) Baking soda b) Bleaching powder c) Quicklime
48. Write the difference between algae and fungi.
49. Draw the structure of human eye and label its parts.
50. How is the skeleton of a bird well suited for flying.

VII. Answer in detail:

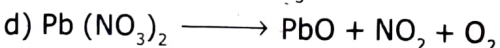
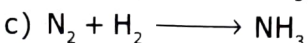
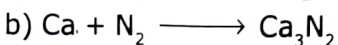
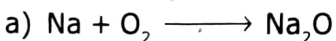
3×7=21

51. Explain the working of thermos flask.

(OR)

Describe the structure and function of the human ear.

52. Balance the following chemical equation.



(OR)

- a) What are the uses of acids?
- b) What are the uses of bases?

53. Write any five difference between monocot and dicot plants.

(OR)

Briefly describe the menstrual cycle.