

Class: VIII

Subject: Science (Sample Paper)

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**List of chapters covered in this sample paper**

1. Reproduction in animals.
2. Reaching the age of adolescence.
3. Force and pressure.
4. Friction.
5. Sound.
6. Chemical effects of electric current.
7. Some natural phenomena.
8. Light.
9. Stars and solar system.
10. Pollution of air and water.

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TERM II

Maximum marks: 90

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**SECTION- A (PHYSICS)**

**I. Choose the correct option.**

**(1x4=4)**

1. Which of the following is not a member of the solar system?
  - a) A comet
  - b) A satellite.
  - c) An asteroid.
  - d) A constellation.
  
2. How many images are formed if two plane mirrors are placed parallel to each other?
  - a) One.
  - b) Two.
  - c) Three.
  - d) Infinite.
  
3. Electric charge can only flow through \_\_\_\_\_.
  - a) Insulators.
  - b) Conductors.
  - c) Semiconductors.
  - d) Both insulators and conductors.
  
4. Which of the following is not a safe place during lightening?
  - a) Open ground.
  - b) Bus stop.
  - c) Inside the house.
  - d) None of these.

**II. Give one word answers for the following.**

**(1x4=4)**

1. Which scale is used to measure the magnitude of earthquake?
2. In which part of the sky we find the Venus in the sky as an evening star?
3. Name the largest planet of the solar system?
4. What is the SI unit for frequency?

**III. Give reason for the following.**

**(2x2=4)**

1. Why a charged body loses its charge when we touch it with our hand?
2. Why charged balloon repels when come in contact with each other?

**IV. Answer the following questions. (2x2=4)**

1. Give difference between the following terms?
  - i. Asteroid and Meteor.
  - ii. Inner planets and Outer planets.
2. Calculate the time period and the frequency if a pendulum oscillates 40 times in 4 seconds?
3. What is noise pollution and explain how it is harmful to humans?

**V. Answer the following questions. (3x3=9)**

1. Describe the constructions of kaleidoscope?
2. List the different types of friction?
3. Define force and explain the relation between force and interaction?

**VI. Answer the following questions. (5)**

1. Define atmospheric pressure and explain the factors? (2)
2. Explain how fluids exert pressure? (1)
3. Explain in detail how can we take care of our eyes with neat labeled diagram? (2)

**SECTION- B (CHEMISTRY)****VII. Choose the correct option. (1x4=4)**

1. Which of the following is not a green house gas?
  - a) Nitrogen.
  - b) Carbon dioxide.
  - c) Methane.
  - d) Sulphur dioxide.
2. Acid rain is due to
  - a) Combustion of fossil fuels
  - b) Carbon dioxide.
  - c) Oxides of sulphur
  - d) Mining operations.
3. DDT can be grouped into \_\_\_\_\_.
  - a) Non-biodegradable pollutant
  - b) Bio-degradable pollutant
  - c) Fertilizer
  - d) None of these.
4. Which are the natural sources of air pollution?
  - a) Smoke from industries.
  - b) Smoke emitted from vehicles.
  - c) Mining operations.
  - d) Dust storm.

**VIII. Give one word answers for the following. (1x4=4)**

1. What is the percentage of nitrogen present in air?
2. Which gas is used in refrigerators?
3. Name the commonly used chemical method for purifying water?
4. Which year the Ganga Action Plan was launched to save Ganga River?

**IX. Answer the following questions. (2x4=8)**

1. Define potable water?
2. Name four greenhouse gases?
3. Give one difference between the following terms:
  - i. Pure air and polluted air.
  - ii. Pure water and polluted water.
4. Define the following:
  - i. Water pollution.
  - ii. Smog.

**X. Answer the following questions. (3x3=9)**

1. Describe in brief about green house effects?
2. Explain the effects of water pollution?
3. Explain how can we reduce air pollution?

**XI. Answer the following questions. (5)**

1. Define air pollution? Explain the causes of air pollution? (2)
2. List out the different ways in which water gets contaminated? (1)
3. What is acid rain? Explain how acid rain affects us? (2)

**SECTION- C (BIOLOGY)**

**XII. Choose the correct option. (1x4=4)**

1. Lions and bears are examples of \_\_\_\_\_.
  - a) Egg laying animals.
  - b) Oviparous.
  - c) Viviparous.
  - d) None of the above
2. The process of developing tadpole into an adult frog is called as \_\_\_\_\_.
  - a) Embedding.
  - b) Budding.
  - c) Metamorphosis.
  - d) Fertilization.

3. Which of the following are male sex hormones?
- Insulin.
  - Progesterone.
  - Thyroxin
  - Testosterone.
4. The animals which give birth to their young ones are called as \_\_\_\_\_.
- Egg laying animals.
  - Oviparous.
  - Viviparous.
  - None of the above.

**XIII. Give one word answers for the following. (1x4=4)**

- Name the hormone secreted by thyroid gland?
- Which female organ produces eggs?
- Name an organisms where an external fertilization takes place?
- Name the gland that secretes hormones?

**XIV. Give reason for the following. (2x4=8)**

- Why adolescents need proper diet?
- Why the offspring gender is determined by the male parent only?
- Why sperm need to have motility?
- Why do fish and frogs lay hundred eggs at a time whereas the hens lay only one egg at a time?

**XV. Answer the following questions. (14)**

- What is reproduction? Explain the importance of reproduction? (3)
- Define the following terms: (3)
  - Sex determination in unborn baby.
  - Sexual reproduction.
  - Budding.
  - Fetus.
  - Cloning.
  - Oviparous animals.
- Give difference between internal fertilization and external fertilization with examples? (3)
- List out the changes that occur in a body feature during puberty? (3)
- Define the following terms: (2)
  - External fertilization with examples
  - Hormones.
  - Larva
  - Placenta.