

**SAMPLE PAPER**  
**UT-III**  
**CLASS-VIII**  
**SCIENCE**

**TIME: 2 Hrs**

**MM: 60**

**GENERAL INSTRUCTIONS:**

- i) All questions are compulsory.
- ii) Question number 1 consists of 10 multiple choice questions.(1 marks each)
- iii) Question number 2 consists of 7 short answer type questions (2 marks each)
- iv) Question number 3 consists of 7 long answer type questions.(3 mark each)
- v) Question number 4 consists of 3 value based questions.(2.5 marks each)
- vi) Question number 5 consists of 3 Higher order thinking questions.(2.5 marks each)

**Q1. Answer the following multiple choice questions:**

- i. Coal mainly contains
  - a) Carbon
  - b) Carbon and Hydrogen
  - c) Carbon, Hydrogen and nitrogen
  - d) Carbon, nitrogen and oxygen
- ii. Which of the following is regarded as the best variety of coal?
  - a) Bituminous
  - b) Lignite
  - c) Anthracite
  - d) Peat
- iii. Which of the following is a hermaphrodite animal?
  - a) Frog
  - b) Cow
  - c) Dog
  - d) Earthworm

- iv. Which of these are the male reproductive organs in humans?
- a) Sperms
  - b) Ova
  - c) Testes
  - d) Ovaries
- v. Which combination of sex chromosomes is present in a female?
- a) XX
  - b) YY
  - c) XY
  - d) None of these
- vi. Which of these is not a gland of the endocrine system?
- a) Adrenal
  - b) Thyroid
  - c) Penis
  - d) Ovaries
- vii. Which of these is a contact force?
- a) Friction
  - b) Magnetic force
  - c) Gravitational force
  - d) Electrostatic force
- viii. Which of these can force acting on an object not change?
- a) Direction of motion
  - b) State of rest
  - c) Shape
  - d) Mass
- ix. It is difficult to walk on ice because
- a) Pressure is high
  - b) Pressure is low
  - c) Friction is high
  - d) Friction is low
- x. In which case is friction a disadvantage?
- a) Running a machine
  - b) Walking
  - c) Applying brakes
  - d) writing

**Q2. Answer the following short answer type questions:**

- i. What are the advantages using natural gas?
- ii. How and where does the fertilization take place in human beings?
- iii. How is sexual reproduction different from asexual reproduction?
- iv. Name four endocrine glands and the hormone they secrete.
- v. What is the difference between mass and weight?
- vi. What is atmospheric pressure? What is it caused by?
- vii. On what principle ball bearings work?

**Q3 Answer the following long answer type questions:**

- i. What are the important uses of coke?
- ii. If a resource is renewable, it can still get exhausted. Discuss with two examples.
- iii. Explain the difference between viviparous and oviparous animals.
- iv. How does fertilization occur in frogs?
- v. Discuss the menstrual cycle.
- vi. How is pressure exerted by a liquid change with depth? Explain with a diagram.
- vii. Give two situations where it is desirable to increase friction.

**Q4. Answer the following value based questions:**

- i. Nikita goes with her father to a car showroom. Her father is confused whether to buy a CNG model or a petrol model.
  - a) What would you suggest him and why?
  - b) What do we learn on opting a CNG model?
- ii. Anjali's aunt is unable to give birth to babies. She decides to adopt a girl child named Puja from an orphanage.
  - a) Give one reason due to which Anjali's aunt is unable to have babies.
  - b) What can we learn from Anjali's aunt?
- iii. Nikita is cutting fruits for her grandmother as she is ill. She finds difficult to cut fruits. She sharpens the cutting edge of the knife and cuts the fruits easily.
  - a) How does sharpening the knife help in cutting the objects easily?
  - b) What can you learn from nikita?

**Q5. Answer the following higher order thinking questions:**

- i. Drugs are harmful at all ages. Why do we then specially emphasize that adolescents should avoid drugs?
- ii. If you press a rubber sucker on a rough surface, it does not stick to the surface. Why? ?
- iii. Friction is necessary evil. Explain.