

Roll No.

Answer Sheet No.

Signature of Candidate: \_\_\_\_\_

Signature of Invigilator: \_\_\_\_\_

**Annual Examination-V 2024**  
**GENERAL SCIENCE**  
(Objective)

Time Allowed: 45 Minutes

**Note** This paper consists of THREE Sections. Section - A needs to be solved on the Question Paper. Section - B & C to be solved on the Answer Sheet. Cutting, erasing and overwriting is not allowed.

**SECTION - A (30-Marks)**

**Q-1** Encircle the best answer.

- (i) To which group of organisms, Mushrooms belong?  
(a) Virus (b) Fungi (c) Bacteria (d) Protozoa
- (ii) Which one is NOT a chemical change?  
(a) Seed germination (b) Making a paper boat  
(c) Burning of wood (d) Cooking food
- (iii) The International Space Station is orbiting around the:  
(a) Sun (b) Earth (c) Moon (d) Satellite
- (iv) The flow of electric current in electric circuit is controlled by:  
(a) A bulb (b) A copper wire (c) A switch (d) Rubber
- (v) Speed of sound is maximum in:  
(a) A metal wire (b) Air (c) Water (d) Vacuum
- (vi) An American Agency, NASA is responsible for:  
(a) Communication (b) Space exploration and aviation  
(c) Navigation (d) Weather Forecast
- (vii) Which organs does a fish use to respire?  
(a) Gills (b) Lungs (c) Air sacs (d) Skin
- (viii) Which structure covers the Gram seed:  
(a) Cotyledon (b) Seed coat (c) Plumule (d) Endosperm
- (ix) The Earth behaves as a huge \_\_\_\_\_.  
(a) Ring magnet (b) Bar magnet (c) Temporary magnet (d) Electromagnet
- (x) Which one of the following contaminates food?  
(a) Mosquito (b) Micro-organisms (c) Air (d) Heat
- (xi) Which disease is caused due to air pollution?  
(a) Diarrhea (b) Typhoid (c) Lungs cancer (d) Cholera
- (xii) A faint image can be seen across:  
(a) Transparent objects (b) Shining objects  
(c) Opaque objects (d) Translucent objects
- (xiii) Which group is found only in the ocean?  
(a) Fish (b) Insects (c) Echinoderms (d) Amphibians

- (xiv) What type of change is it when metal expands on heating?  
 (a) Permanent (b) Chemical (c) Physical (d) Irreversible
- (xv) The ovary ripens to form:  
 (a) Seed (b) Ovule (c) Fruit (d) Anther
- (xvi) How many poles are there in a ring shaped magnet?  
 (a) 1 (b) 2 (c) 3 (d) 4
- (xvii) Which type of pollination is must for papaya?  
 (a) Self-pollination (b) Cross pollination (c) Both pollination (d) None of these
- (xviii) The change of water into vapours is:  
 (a) Condensation (b) Evaporation (c) Boiling (d) Melting
- (xix) How does light travel in Air?  
 (a) In a circle (b) In a curved path  
 (c) Along a straight line (d) In a depressed path
- (xx) Which of the following is not a greenhouse gas?  
 (a) Oxygen (b) Methane (c) Ozone (d) Carbon dioxide
- (xxi) Humus makes the soil \_\_\_\_\_  
 (a) Unfit for cultivation (b) Fertile  
 (c) Soft and airy (d) Hard
- (xxii) The amount of fresh water on Earth is \_\_\_\_\_  
 (a) About 1% (b) About 30% (c) About 70% (d) About 97%
- (xxiii) Microorganisms can be seen under a \_\_\_\_\_  
 (a) Telescope (b) Camera (c) Microscope (d) Loudspeaker
- (xxiv) Countless shining lights seen at night on sky are?  
 (a) The stars (b) The moons (c) The planets  
 (d) Different heavenly objects
- (xxv) What is important in Natural Manure?  
 (a) Minerals (b) Decayed Matter (c) Sand (d) Salt
- (xxvi) Different kinds of organisms found in any particular area is called.  
 (a) Classification (b) Group (c) Kingdom (d) Biodiversity
- (xxvii) Who was the first man to step on the Moon?  
 (a) Edwin Aldrin (b) Neil Armstrong (c) Yuri Gagarin (d) Alan Shepard
- (xxviii) What does a mason use to keep a wall vertical?  
 (a) Metre Rule (b) Spirit level (c) Triangle (d) Plumb line
- (xxix) The diseases of skin, lungs, throat and eyes are caused due to:  
 (a) Frost (b) Fog (c) Humidity (d) Smog
- (xxx) Saline water is used for:  
 (a) Cleaning wounds (b) Drinking (c) Washing hands (d) Taking a bath

Annual Examination-V 2024

**GENERAL SCIENCE**

(Subjective)

Time Allowed: 02:15 Hour

**SECTION - B (40-Marks)**

**Note:** Attempt any TEN (10) parts. All parts carry equal marks. (10x4=40)

**Q-2. Answer the given questions.**

- (i) What is rusting? What type of change is this?
- (ii) Compare a gram seed with a maize seed.
- (iii) If it is written d.w on polythene bags, then why is there no ban on the use of such bags?
- (iv) Write four benefits we get from the artificial satellites.
- (v) There is a bar magnet without any indication. How will you identify its south pole?
- (vi) You are given a bulb. What other components are required to light it up?
- (vii) State the importance of classification.
- (viii) Which soil is used to plaster the village houses? Which property of the Soil is useful to do so?
- (ix) The astronauts have to face a lot of problems in space. Can you name Some of them?
- (x) The moon is non-luminous like our Earth. How does it look luminous to us?
- (xi) What will be the effects of Global Warming?
- (xii) Write two benefits and two harmful effects of bacteria.
- (xiii) Label the diagram.



**SECTION - C (30-Marks)**

**Note:** Attempt any TWO (2) questions. All questions carry equal marks. (2x15=30)

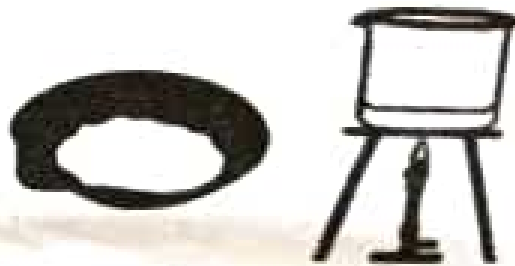
- Q-3. (a)** A bean seed is open longitudinally after removing its seed coat. Draw and label a diagram to show its internal structure. (5)
- (b)** "All micro-organisms are harmful and cause diseases" prove this statement wrong. (5)

11. Write "Yes" or "No" to identify types of pollution caused by the following activities:

(5)

Reason of pollution	Air Pollution	Water Pollution	Land Pollution
Burning plastic and garbage			
Use of chemical fertilizers and insecticides			
Polluted water			
Cutting of trees			
Industrial waste			

- Q-4. (a) Enlist five sources of water and also state five uses of water. (5)  
 (b) What kind of experiments are conducted in the international space station that cannot be done on earth. (5)  
 (c) Enlist five important steps for dressing a wound. (5)
- Q-5. (a) Investigate about the factors responsible for the extinction of biodiversity. (5)  
 (b) Heat solid wax in a beaker or dish. (As in figure). (5)



- (i) What do you observe when solid wax is heated in a beaker?  
 (ii) What does the wax become upon melting?  
 (iii) What happens when you cool the wax?  
 (iv) What is this change of states called?  
 (v) Define physical changes.
- (c) Identify the given objects as transparent, translucent and opaque. (5)
- |                   |                     |
|-------------------|---------------------|
| Door _____        | Glasses _____       |
| Soft drink _____  | Packing tape _____  |
| Window pane _____ | Tissue paper _____  |
| Brick wall _____  | Plastic sheet _____ |
| Net curtain _____ | Iron sheet _____    |