

PAPER PATTERN CLASS - V
GENERAL SCIENCE
SECTION - A (40 – Marks)

Question #	Questions	Marks	Unit #
1. (a)	MCQs	20	1-10
(b)	Match the columns	5	1-10
(c)	Flow charts	5	1-10 (List attached)
(d)	Complete the statements	10	1-10 (Key points, “Do you know”, “Interesting information”)

Section B (15 Marks)

Question #	Questions	Marks	Unit #
2	Activity/project based questions (3 out of 5)	5 x 3 = 15	1-10 (Experiment based activities)

Section C (45 Marks)

Question #	Questions	Marks	Unit #
3	Short Q/Ans (5 out of 8)	5x3=15	1-10
4	Draw and Label diagram(2 out of 3)	5x2=10	1-10 (list attached)
5	Mind Maps	10	1-10 (list attached)
6	Long Questions (2 out of 4)	10	1-10 (Constructed Response Questions and Investigate)

List of Flow Charts

S.#	Topic	Unit #
1	Classification of Invertebrates with examples	1
2	Five Kingdom system with examples	1
3	Classification of Vertebrates with example	1
4	Main groups of Microorganisms with examples	2
5	Types of environmental pollution	4
6	Processes involved in change of state of matter	5
7	Types of soil and their characteristics	8

List of Mind Maps

S.#	Topic	Unit #
1	Diseases caused by Microorganisms	2
2	Effects of Pollution (a) Air (b) Water (c) Land	4
3	Luminous and non-Luminous objects	6
4	Components of water cycle	8
5	Uses of Satellites	9

List of Diagrams

S.#	Topic	Page #
1	Structure of a flower	34
2	Sexual reproduction in plants	38
3	Germination of a seed	40
4	Structure of Maize seed	41
5	Types of electric circuits	96
6	Structure of the Earth	112
7	The water cycle	114



MODEL PAPER CLASS - V
GENERAL SCIENCE
SECTION - A (40 – Marks)

Year-2021-22
to onward
Exams

Time Allowed: 50 minutes

Note: Cutting, Erasing and Overwriting are not allowed.

Q. 1. A) Choose the correct answer.

- i. The organs used by fish to respire is:
(a) Lungs (b) Gills (c) Air Sacks (d) Skin
- ii. We check the horizontal surface level with:
(a) Meter rule (b) Spirit Level (c) Plumb Line (d) Triangle
- iii. Penicillium is an example of :
(a) Protozoa (b) Bacteria (c) Fungi (d) Virus
- iv. How long does it take for a geo stationary satellite to complete 1 orbit?
(a) 1 day (b) 1 week (c) 1 month (d) 1 year
- v. Which type of pollination is must for Papaya?
(a) Cross Pollination (b) Self Pollination (c) Both of these (d) None of these
- vi. The soil which is good for the growth of plants is:
(a) Rock (b) Silty (c) Sandy (d) Clay
- vii. Which one of this is not a greenhouse gas?
(a) Oxygen (b) Methane (c) Ozone (d) Carbon dioxide
- viii. How many poles are there of a ring-shaped magnet?
(a) 1 (b) 2 (c) 3 (d) 4
- ix. Metal expands on heating, this change is
(a) Permanent (b) Chemical (c) Physical (d) Irreversible
- x. Speed of sound is maximum in:
(a) Air (b) Metal Wire (c) Vacuum (d) Water
- xi. How does light travel in air?
(a) In a circle (b) Along a curved path (c) Along a straight line (d) In a dispersed path
- xii. Typhoid is caused by the germs present in:
(a) Sewerage water (b) Fertilizers (c) Factory waste (d) Insecticides
- xiii. Which one of these is not a chemical change?
(a) Seed germination (b) Making paper boat (c) Burning of wood (d) Cooking food

- xiv. The amount of fresh water on the earth is:
 (a) about 1 % (b) about 30 % (c) about 70% (d) about 97%
- xv. Which structure covers the gram seed?
 (a) cotyledon (b) endosperm (c) plumule (d) seed coat
- xvi. One of the following is not a micro-organism
 (a) Yeast (b) mold (c) ant (d) smut
- xvii. The flow of current in an electric circuit is controlled by
 (a) A bulb (b) Copper wire (c) Rubber (d) Switch
- xviii. The cat belongs to the group:
 (a) amphibians (b) reptiles (c) mammals (d) birds
- xix. The first artificial satellite was sent in space in:
 (a) 1945 (b) 1957 (c) 1969 (d) 1973
- xx. Saline water is used for:
 (a) cleaning (b) washing hands (c) drinking (d) taking a bath
 wounds

B) Match Column A with Column B.

(05)

Column A	Column B
a) A bird Park	i) Pollutant gasses
b) Stamen	ii) Form of energy
c) Smog	iii) Aviary
d) Light	iv) Locate position of object
e) GPS	v) Anther and Filament

C) Draw a flow chart of processes involved in changes in state of matter with examples. (05)

D) Complete the statement by selecting from the given options. (10)

(i) A grain of sand enters the body of an oyster	(i) Insecticides and fertilizers used in agriculture
(ii) Conductors are the materials	(ii) The planet Venus
(iii) The process of turning water vapors into liquid is	(iii) It is underground thick stem of a plant
(iv) Mantle is	(iv) To prevent iron from rusting
(v) Asexual reproduction is done by a tuber	(v) Bandage for wounds
(vi) The bright object on horizon before sunrise or sunset is	(vi) It forms a pearl around it.
(vii) Luminous objects are	(vii) Which allow electric current to pass through them
(viii) Paint and oil is used	(viii) Objects that omit light
(ix) The main source of land pollution is	(ix) Layer of Earth under the crust
(x) In first aid sterile gauze is used as	(x) Condensation



MODEL PAPER CLASS - V
GENERAL SCIENCE

SECTION - B (Subjective) (15 – Marks)

Time Allowed: 2 hour 10 minutes

Q.2. Read the given statement carefully and answer the given question at the end of every activity (Any 3) (5x3=15)

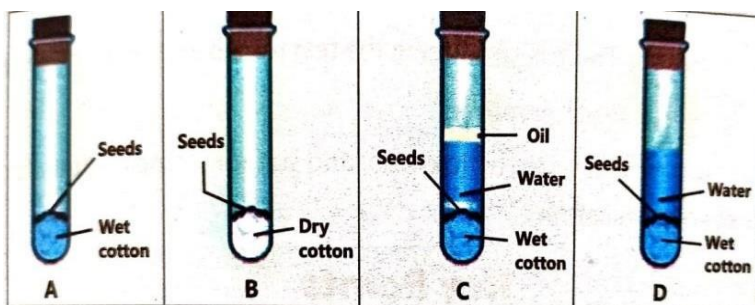
- (a) Place a torch light or a candle on a table near a wall in the room. Place your hand between the wall and the light coming out from the candle or the torch light as



shown below:

Result.pk

- (i) What do you see on the wall?
 - (ii) What happens to the shadow if you bring your hand near the candle?
 - (iii) Is there any change in the size of shadow if you move your hand away from the candle?
 - (iv) How do you think shadow is formed?
 - (v) What do you conclude from the observation?
- (b) Take 4 test tubes and mark them as A, B, C and D.
Test tube A has wet ball of cotton and seeds at room temperature. Put water in the tube daily and allow air in it.
Test tube B has dry cotton ball and seeds at room temperature.
Test tube C has a ball of cotton and seeds with water and oil at room temperature.
Test tube D has water, cotton and seed in a freezer.



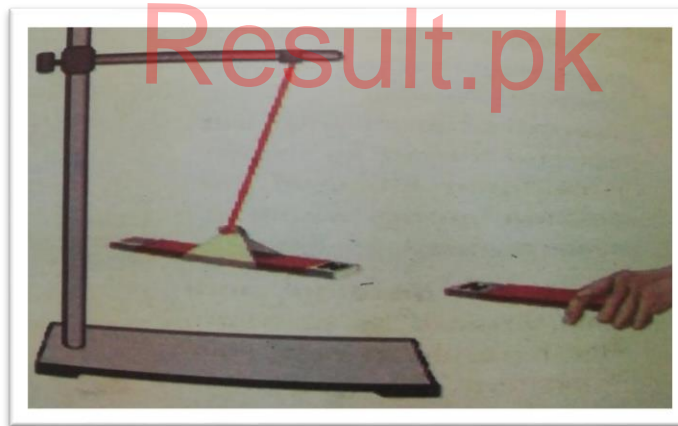
After a week

- (i) In which test tube did the seeds germinate?
 - (ii) Why did the seeds not germinate in test tube B?
 - (iii) Why did the seeds not germinate in test tube C?
 - (iv) Why did the seeds not germinate in test tube D?
 - (v) What does this experiment prove?
- (c) Put a sample of soil in a glass jar. Pour some water in it. Shake well to mix the soil and water. Place it on the table and observe it after 2 hours.



- i. Do you observe layers in the jar?
- ii. What is at the bottom of the jar?
- iii. What do you see over it in the roily water?
- iv. What is floating up on the surface of water?
- v. Which layer do you think will be the heaviest?

- (d) Suspend a bar magnet with the help of a thread such as it can rotate freely. Take another bar magnet and bring close to it:



- (i) What happens when north pole of second magnet comes close to the north pole of the suspended magnet?
 - (ii) What happens when the south pole of the second magnet comes close to the south pole of the suspended magnet?
 - (iii) What happens when opposite poles come near?
 - (iv) What do you conclude from this activity?
- (e) During the earth quake, what we need to do to be safe, write steps.
- (i) When you are in class room.
 - (ii) When you are out of danger.

GENERAL SCIENCE

Section -C (Marks – 45)

Q.3. Answer the given short questions. (Any five) (3x5=15)

- i) Why does a bulb light up in closed circuit?
- ii) When is your shadow the shortest and the longest in the sunlight?
- iii) Explain evaporation.
- iv) What is the similarity between the fungi and the animals?
- v) What is rusting and which type of change is this?
- vi) How will you compare self-pollination to cross pollination?
- vii) Why does a geostationary satellite appear to be stationary?
- viii) What is 'an' LED?

Q.4. Draw and label diagram for any two of the following. (5+5=10)

- i) Structure of maize seed
- ii) Structure of earth
- iii) Structure of a flower

Q.5. Draw a mind map of “Effects of 3 types of pollution”. (10)

Q.6. Give detailed answers of the following questions (any two) (5x2=10)

- i) What are the main causes of pollution?
- ii) How do the plant roots and other creatures inside the earth respire?
- iii) How can you compare the speed of light and speed of sound coming from the lightning?
- iv) The astronauts have to face lots of problems in space. Can you name some of these problems?

