



INDIAN SCHOOL SOHAR
TERM - II EXAM (2022-23)
SUBJECT: SCIENCE
CLASS – V
SET –A

Date of Exam: 05-03-2023

Time Allotted: 2 hours

Max. Marks: 40

(Note: This question paper consists of 4 printed pages. Please check that you have all the pages.)

Q1. Choose the correct answer for the following:

(1×5=5 marks)

- i) Which among these will allow you to see objects partially through them?
A) An electric pole
B) A wooden door
C) A clear glass
D) A coloured glass
- ii) In which layer of the atmosphere, meteor and other stones from space burn up?
A) Troposphere
B) Exosphere
C) Mesosphere
D) Thermosphere
- iii) Which parts of the Earth's shadow are visible during an eclipse?
A) Orbit, Axis
B) Crust, Core
C) Umbra, Penumbra
D) Rotation, Revolution
- iv) What is the sun made up of?
A) Hydrogen and Oxygen
B) Helium and Argon
C) Hydrogen and Helium
D) Argon and Oxygen
- v) In which of these phases the moon is not at all visible?
A) Full Moon
B) Half Moon
C) New Moon
D) Blue Moon

Q2. Study the given statements labeled Assertion (A) and Reason (R). Choose the correct answer from the options given below. **(1×2=2 marks)**

A	Both A & R are true and R is the correct explanation of A
B	Both A & R are true but R is not the correct explanation of A
C	A is true but R is false
D	A is false but R is true

i) **Assertion {A}**: A force can make a stationary object move or make a moving object move faster.

Reason {R}: A force can change the shape of an object.

ii) **Assertion {A}**: There are different types of artificial satellites and each is designed for a specific purpose.

Reason {R}: Artificial satellites are man-made objects that orbit the Earth.

Q3. Answer the following in a word: (1×3=3 marks)

- a) The astronaut to land on the moon first-
- b) An activity controlled by the medulla-
- c) A type of artificial satellite-

Q4. Define the following terms: (1×3=3 marks)

- a) Archimedes Principle
- b) Reflex action
- c) Gravity

Q5. Write any one point to differentiate between the following: (2×2=4 marks)

- a) Gravitational Force and Magnetic Force
- b) Crust and Mantle

Q6. Give reason for the following: (any two) (1×2=2 marks)

- a) The footprints of astronauts will remain on the moon forever.
- b) Machine parts need to be oiled regularly.
- c) We should avoid the extensive use of chlorofluorocarbon gases.

Q7. Read the passage given below and answer the following questions. (1×2=2 marks)

Moon: The moon is also spherical like the sun and the planets. The moon is made of rocks and has no air on it. The moon is the natural satellite of the Earth. The surface of the moon is dry, dusty, and filled with craters, mountains, and valleys. The moon does not have any light of its own.

- a) Define Craters.
- b) The moon does not have its own light yet it shines, why?

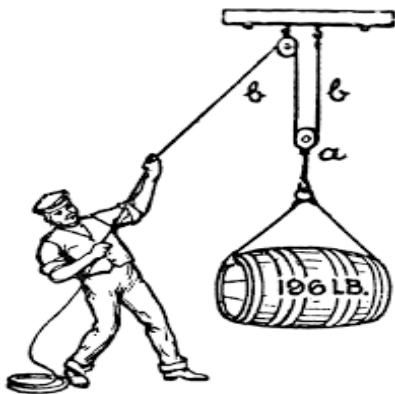
Q8. Raghu was wondering if there was no atmosphere, how our life would be affected?
 State any two advantages of the atmosphere in our daily life. (1×2=2 marks)

Q9. Complete the flowchart of the purification of water. (1×2=2 marks)

i) Water is taken from a lake or pond.
ii)
iii) After the impurities settle, water is allowed to move through filters.
iv)
v) Water is stored in large tanks for distribution.
vi) This water is allowed to run into pipelines that reach users.

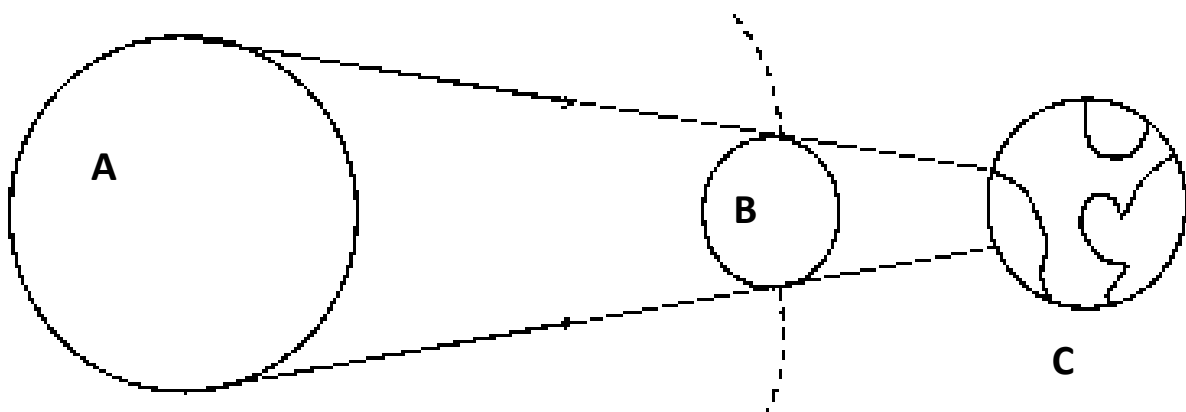
Q10. Do as directed: (4×3=12 marks)

i) Observe the given picture and answer the following questions:



a) Name the simple machine shown in this picture and define it.
b) What are the two types of this simple machine?
c) Give an example of this simple machine used in your daily life.

ii) Observe the given diagram and answer the following questions:



- a) Name the eclipse shown in the picture.
- b) Label **A, B, and C** in the given diagram.
- c) Explain how this type of eclipse occurs.

iii) Ronit has to perform an experiment in the lab on the removal of impurities. He has two beakers, **beaker A** with salt and water while **beaker B** has sand and water. He picked beaker **B** for his experiment and followed a process for the removal of impurities.

- a) What type of impurity is there in beaker B?
- b) Name the process (anyone) Ronit has followed to remove the impurities.
- c) Explain the process with a well-labeled diagram.

iv) Danish is holding a transparent plastic bag in the sun but his shadow does not show that he is holding something in his hand. Then he takes the book in place of the transparent bag and notices that a dark shadow is formed.

- a) Why Danish is not able to see the shadow of the plastic bag?
- b) Explain any two features of the shadow.

Q11. What is a lever? Explain any two types of a lever with a labeled diagram.

(1×3=3 marks)



INDIAN SCHOOL SOHAR
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SET –B

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(Note: This question paper consists of 4 printed pages. Please check that you have all the pages.)

Q1. Choose the correct answer for the following:

(1×5=5 marks)

- i) The gravity on the moon is ___ of the Earth.
A) One-third
B) One-fifth
C) One-fourth
D) One-sixth
- ii) Which parts of Earth's shadow are visible during an eclipse?
A) Orbit, Axis
B) Crust, Core
C) Umbra, Penumbra
D) Rotation, Revolution
- iii) Which among these is the purest form of water?
A) Boiled water
B) RO water
C) Filtered water
D) Distilled water
- iv) Which layer of the atmosphere has the least amount of air or no air exists?
A) Exosphere
B) Troposphere
C) Mesosphere
D) Thermosphere
- v) Which of these will allow you to see objects partially through them?
A) An electric pole
B) A wooden door
C) A clear glass
D) A colored glass

Q2. Study the given statements labeled as Assertion(A) and Reason(R). Choose the correct answer from the options given below. **(1×2=2 marks)**

A	Both A & R are true and R is the correct explanation of A
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i) **Assertion {A}**: A force can make a stationary object move or make a moving object move faster.

Reason {R}: A force can change the shape of an object.

ii) **Assertion {A}**: Different types of artificial satellites are designed for a specific purpose.

Reason {R}: Artificial satellites are man-made objects that orbit the Earth.

Q3. Answer the following in a word:

(1×3=3 marks)

- a) The astronaut to land on the moon first-
- b) A type of artificial satellite-
- c) An activity controlled by the cerebrum-

Q4. Define the following terms:
marks)

(1×3=3

- a) Buoyant force
- b) Gravity
- c) Reflex Action

Q5. Give reason for the following: (any two)

(1×2=2 marks)

- a) Machine parts need to be oiled regularly.
- b) No sound can be heard on the moon.
- c) We should avoid the extensive use of chlorofluorocarbon gases.

Q6. Read a passage given below and answer the following questions.

(1×2=2 marks)

Sun: The sun is the closest star that is close to the Earth. It is a huge ball of hot and burning gases. It has corona that we see sometimes during a solar eclipse. The center of the sun is called the core. The sun is mainly made up of hydrogen and a gas called helium.

- a) Define corona.
- b) Write in brief about the process of releasing solar energy.

Q7. Write any one point to differentiate between the following:
marks)

(2×2=4

- a) Electrostatic Force and Mechanical Force
- b) Simple and Complex machine

Q8. Raghu was wondering if there was no atmosphere, how our life would be affected? State any two advantages of the atmosphere in our daily life. **(1×2=2 marks)**

Q9. Complete the flowchart of the purification of water. **(1×2=2 marks)**

i) Water is taken from a lake or pond.
ii)
iii) After the impurities settle, water is allowed to move through filters.
iv) Chlorine is added to kill the germs.
v)
vi) This water is allowed to run into pipelines that reach users.

Q10. Do as directed: **(4×3=12 marks)**

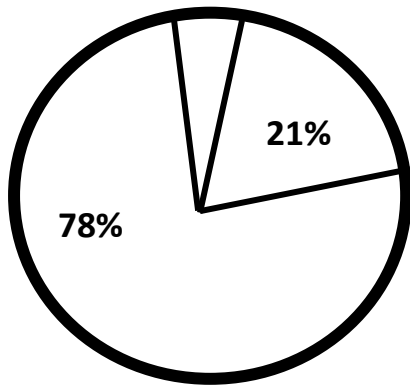
i) Ronit has to perform an experiment in the lab on the removal of impurities. He has two beakers, **beaker A** with salt and water while **beaker B** has sand and water. He picked beaker **B** for his experiment and followed a process for the removal of impurities.

- a) What type of impurity is there in beaker **A**?
- b) Name the process (anyone) Ronit has followed to remove the impurities.
- c) Explain the process in brief.

ii) Danish is holding a transparent bag in the sun but his shadow does not show that he is holding something in his hand. Then he takes the book in place of the transparent bag and notices that a dark shadow is formed.

- a) Why Danish is not able to see the shadow of the plastic bag?
- b) Explain any two features of the shadow.

iii) Observe the pie chart of air composition and answer the following questions:

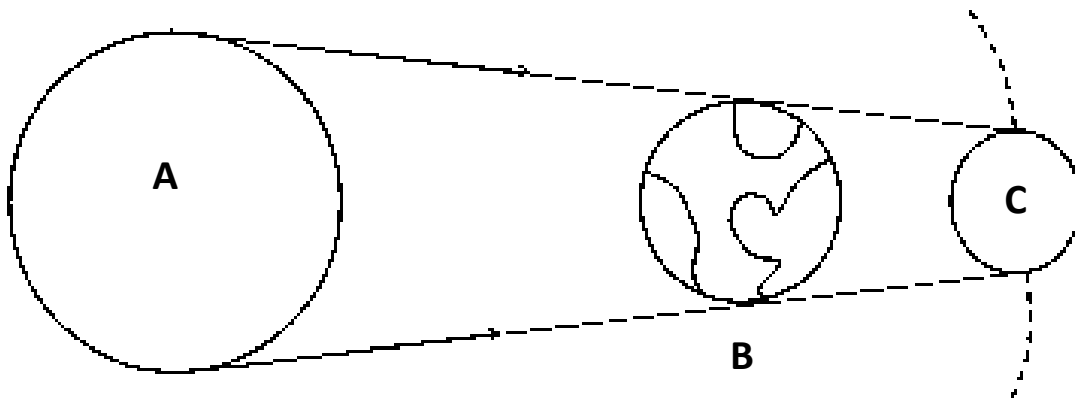


a) Mention any one property of air.

b) Which gas represents 78% of this picture?

c) Write any one use of the most abundant gas.

iv) Observe the given diagram and answer the following questions:



- Name the eclipse shown in the picture.
- Label **A**, **B**, and **C** in the given diagram.
- Explain how this type of eclipse occurs.

Q11. What is a lever? Explain any two types of lever with a labeled diagram.

(1×3=3 marks)
