

**GREENLAWNS HIGH SCHOOL
SCIENCE FINAL EXAMINATION 2025-26**

STD. 7

TIME: 2 HR.

DATE:

MARKS: 80

NOTE:

- 1] Answer to this paper must be written on the paper provided separately.
- 2] You will not be allowed to write during the first 10 minutes. This time is to be spent in reading the paper.
- 3] The time given at the head of this paper is the time allowed for writing the answers. This paper has 3 pages (6 sides).
- 4] Section A is compulsory. Attempt any 4 questions from Section B.
- 5] The intended marks for a question or parts of questions are given in the brackets [].

SECTION A [40 MARKS]

ALL QUESTIONSS IN THIS SECTION ARE COMPULSORY.

QUESTION 1

Choose the most correct answers to the questions from the given options: [15]

- i) The ultrasonic sound waves are heard by
a) Bats b) Elephants c) Whales d) Human beings

- ii) The scientist who described the atom as the smallest particle exhibiting all the properties of a particular element that cannot be divided into further small particles
a) Issac Newton b) Joseph Priestly c) John Dalton d) Antoine Lavoisier

- iii) The organism which does not belong to kingdom Protista is
a) Amoeba b) Bacteria c) Chlorella d) Euglena

- iv) The direction in which a freely suspended magnet orients itself is
a) North-West b) South-East c) North-South d) South-West

- v) The gas which is used to make fizzy drinks in carbonated beverage industry.
a) Oxygen b) Nitrogen c) Helium d) Carbon dioxide

Contd.....

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- vi) Carolus Linnaeus is known as the father of
a) Microbiology b) Physics c) Taxonomy d) Astronomy
- vii) The amplitude of a sound wave is measured in
a) hertz b) second c) gram d) metre
- viii) The subatomic particles of an atom is/are
a) Proton b) Neutron c) Electron d) All of these
- ix) The bacteria found in nodules of leguminous plants are
a) Lactobacilli b) Rhizobium c) Azotobacter d) Amoeba
- x) Which of the following has a large number of free electrons
a) Mica b) Copper c) Rubber d) Glass
- xi) The air is a mixture of
a) Moisture and dust particles b) Gases and dust particles
c) Gases, moisture and dust particles d) Gases and humidity
- xii) The magnet which has a regular shape of a _____ with small thickness is called a bar magnet.
a) square b) rectangle c) parallelopiped d) needle
- xiii) The location of the vocal cords which are responsible for the production of sound in human beings is
a) pharynx b) larynx c) lungs d) heart
- xiv) The atomic number of an atom is represented by the letter
a) Z b) A c) P d) K
- xv) The element with which most of the Oxygen in water bodies chemically combine is
a) Nitrogen b) Hydrogen c) Helium d) Sodium

Contd.....

QUESTION 2

A] Match the columns.

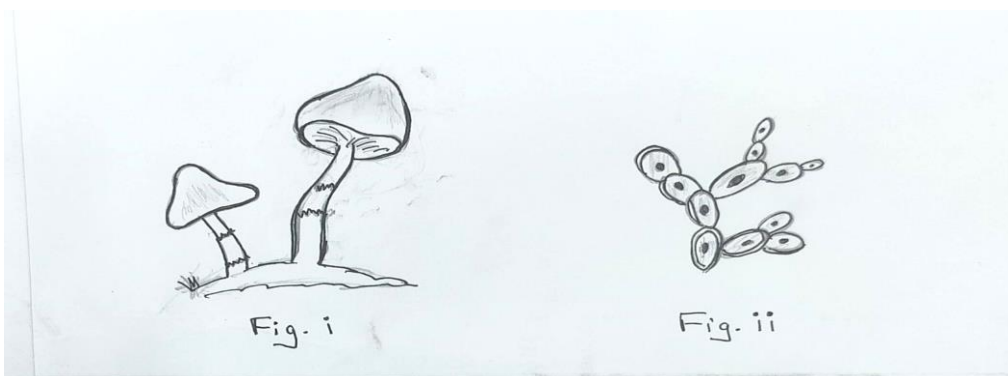
[4]

| A | B |
|------------------|------------------|
| Type of Bacteria | Shape |
| i) Vibrio | a) Spherical |
| ii) Bacilli | b) Comma like |
| iii) Spirilla | c) Rod shaped |
| iv) Cocci | d) Spiral shaped |

B] State whether the following statements are true or false. If false correct the statements by changing the underlined word only. Also rewrite the corrected statement. [6]

- i) The force between the two magnetic poles depends inversely upon the square of distance between them.
- ii) Oxygen is present in air only in free state.
- iii) Citrus canker, Potato scab are the diseases caused by harmful bacteria in plants.
- iv) Sound cannot be generated below frequency 20Hz.
- v) Ozone is a diatomic molecule.
- vi) Kingdom Monera comprises microscopic unicellular, eukaryotic organisms.

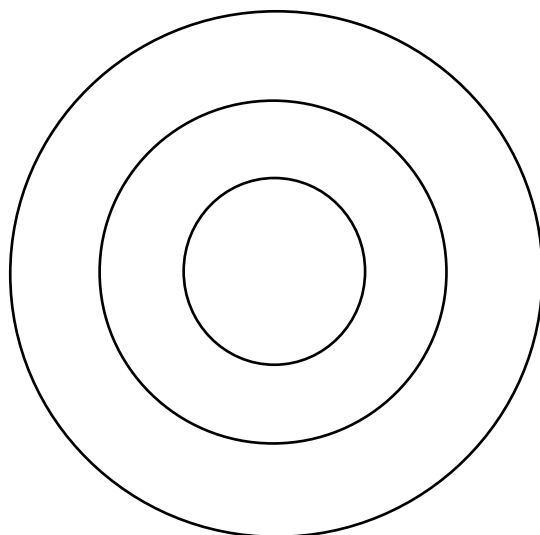
C] Observe the figures given below and answer the questions that follow: [4]



- i) Identify and name the organisms.
- ii) To which kingdom do they belong?
- iii) Give one use of each of the above shown organisms.

Contd.....

D] Observe the figure given below and answer the questions that follow: [10]



- i) Label the parts A to E.
- ii) Define: a) Atomic number b) Mass number
- iii) With the help of above definitions write the a) atomic number and b) mass number of the atom shown in the figure.
- iv) What are the particles in Part C together are known as?
- v) Where does the total mass of an atom lie?

Contd.....

SECTION B (40 MARKS)

ALL QUESTIONS IN THIS SECTION ARE COMPULSORY.

QUESTION 3

A] Name the property of magnet applicable in each of the following cases: [2]

- i) The sailors use magnetic compass needle for navigation.
- ii) When a magnet is brought near cobalt pieces, they (cobalt pieces) get attracted to it.

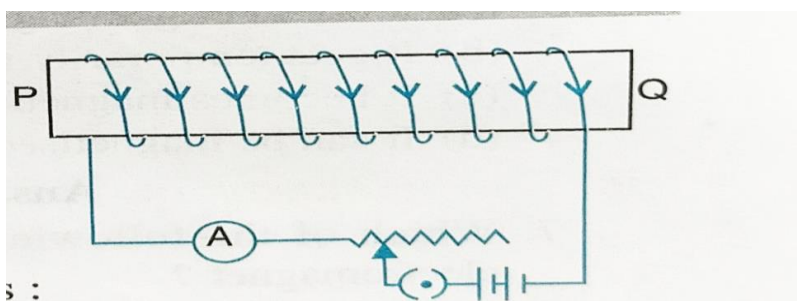
B] i) What happens to a freshly prepared lime water when carbon dioxide gas is passed through it? [2]

ii) Name the substance formed during the reaction mentioned in Q.3 B-i.

C] Name the appendages used by the following organisms for locomotion. [2]

- i) Euglena
- ii) Paramecium

D] Observe the figure given below and answer the questions that follow: [4]



- i) Name the component (device) shown in the figure.
- ii) Write the principle on which it works.
- iii) Give any two uses of the component.

QUESTION 4

A] i) Why attraction cannot be used as the surest test of magnetisation? [2]

(Give 2 points)

ii) If not attraction then, which is the surest test of magnetisation? [1]

Contd.....

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- B]** Name any two gaseous air pollutants. [2]
- C]** i) In which medium does the sound travel fastest? [1]
- ii) How much is the speed of sound in air near room temperature? [1]
- D]** i) Give any two safety measures to be followed while using electricity. [2]
- ii) Are the switches, electric plugs and sockets made of conductors or insulators or both? [1]

QUESTION 5

- A]** Name the inert gases used in each of the following cases: [5]
- i) A natural anaesthetic
- ii) Due to its radioactive nature, it is used in cancer treatment.
- iii) In weather observation
- iv) In sign boards
- v) In some photographic flashes.
- B]** i) Which type of association is shown by Lichen? [1]
- ii) Name the organisms responsible for the association mentioned by you in Q.5 B-i. [2]
- iii) How do the organisms mentioned by you in Q.5 B-ii, useful to each other? [2]

QUESTION 6

- A]** i) Define: Global Warming. [1]
- ii) Give two examples of gases which cause the global warming. [2]
- iii) What are the gases responsible for global warming are called as? [1]
- iv) Write one impact of global warming on the earth? [1]
- B]** Give scientific reasons: [5]
- i) Carbon dioxide is used in fire extinguisher. (Give 2 points)
- ii) The astronauts cannot hear each other directly on the moon.
- iii) The negatively charged electrons do not fall in the nucleus of an atom, even though it is positively charged.
- iv) Human beings cannot hear Galton whistles.

