

GREENLAWNS HIGH SCHOOL
SCIENCE FINAL EXAMINATION 2023-24

STD. 7

TIME: 2 HR.

DATE: 16/2/2024

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 4 pages (8 sides)
- 4] Section A and Section B both are compulsory.
- 5] The intended marks for a question or parts of questions are given in the brackets [].

SECTION A [40 MARKS]

ALL QUESTIONS IN THIS SECTION ARE COMPULSORY.

Q.1 A] Choose the most correct answers to the questions from the given options: [15]

i) The following is not a characteristic of an image formed by a plane mirror.

- a) The image is a real image
- b) The image is of the same size as the object
- c) The image is laterally inverted
- d) The image is a virtual image

ii) An example of a metalloid from the following elements is

- a) Carbon
- b) Silicon
- c) Gold
- d) Iron

iii) The organism which belongs to the kingdom Fungi is

- a) Amoeba
- b) Euglena
- c) Yeast
- d) Paramecium

Contd

- iv) The pathogens are responsible for
a) spoilage of food b) food poisoning c) growth of the plants
d) diseases in plants and animals
- v) Which of the following allergies is caused due to detergents and soaps
a) Nasal allergies b) intestinal allergies c) Ear allergies
d) skin allergies
- vi) The SI unit of temperature is
a) degree Fahrenheit b) degree Celsius c) kelvin d) calorie
- vii) Which of the following elements is non-reactive and exists in nature in free state hence called as noble metal
a) Hydrogen b) Gold c) Helium d) Mercury
- viii) The bouncing back of the light rays from a surface in the same medium is called as
a) Dispersion b) Refraction c) Collision d) Reflection
- ix) The following is not an example of perennial allergy
a) Food allergy b) Dust allergy c) Allergy due to pet fur
d) Sinusitis
- x) The natural cause of air pollution is
a) deforestation b) Thermal power plant c) Forest fire
d) industrialisation
- xi) It is most easy to see the _____ objects.
a) transparent b) microscopic c) translucent d) opaque

Contd.....

xii) The compound which is responsible for the global warming is
a) Methane b) Iron oxide c) Sodium chloride d) Calcium carbonate

xiii) The gas which is essential for the growth of the plants and animals is

a) Nitrogen b) Hydrogen c) Carbon monoxide d) Ozone

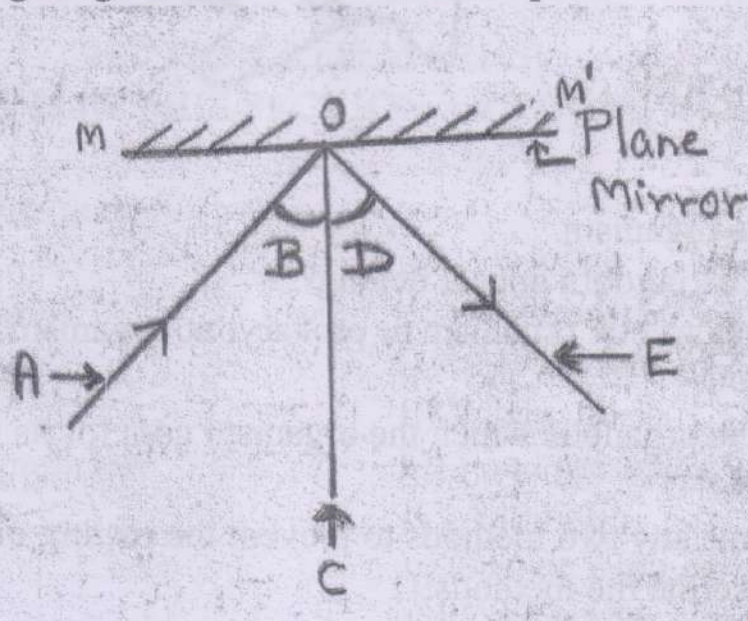
xiv) Which of the following substances expand the most on heating

a) Iron rod b) Water c) Milk d) Air

xv) The substance which changes from the solid state into a vapour state without passing into a liquid state on absorption of heat [s

a) Alum b) Camphor c) Diamond d) Sugar

B] Observe the figure given below and label the parts A to E. [5]



Contd.....

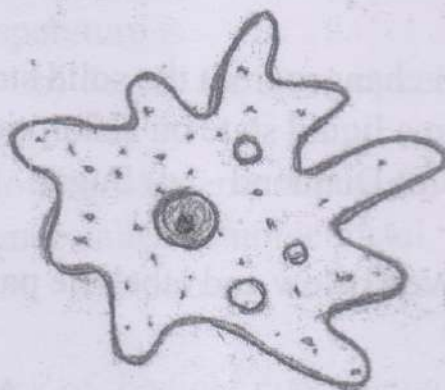
Q.2 A] Name the air pollutant which is responsible for: [2]

- i) Cancellation of trains, flights due to poor visibility in winters.
- ii) Depletion of an Ozone layer leading to skin cancer.

B] Name the gas which is used in preparation of aerated drinks. [3]

Give its two other uses.

C] Observe the figure given below and answer the questions that follow: [Do not copy the figure.]



- i) Name the organism.
- ii) To which kingdom does it belong?
- iii) Is it a eukaryotic organism or prokaryotic organism? Why do you say so?
- iv) Name the organelle which the organism uses for its movement.

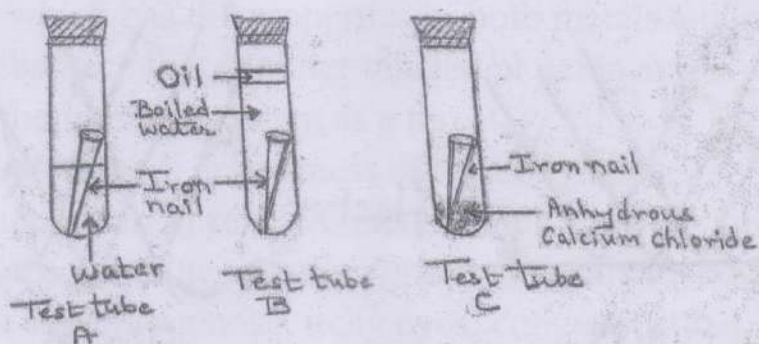
Q.3 A] Name any two methods to prevent the rusting of iron objects.

[Do not describe the methods.] [2]

B] State any two ways to reduce the air pollution. [2]

Contd.....

C] Observe the figure given below and answer the questions that follow: [6]



- i) In which of the test tube/s the iron nail will not rust? Why?
- ii) In which of the test tube/s the iron nail will rust? Why?

SECTION B [40 MARKS]

ALL QUESTIONS IN THIS SECTION ARE COMPULSORY.

Q.4 A] Match the columns. [4]

Column A

- a) Penicillium
- b) Lactobacillus
- c) Clostridium botulinum
- d) Fungal disease

Column B

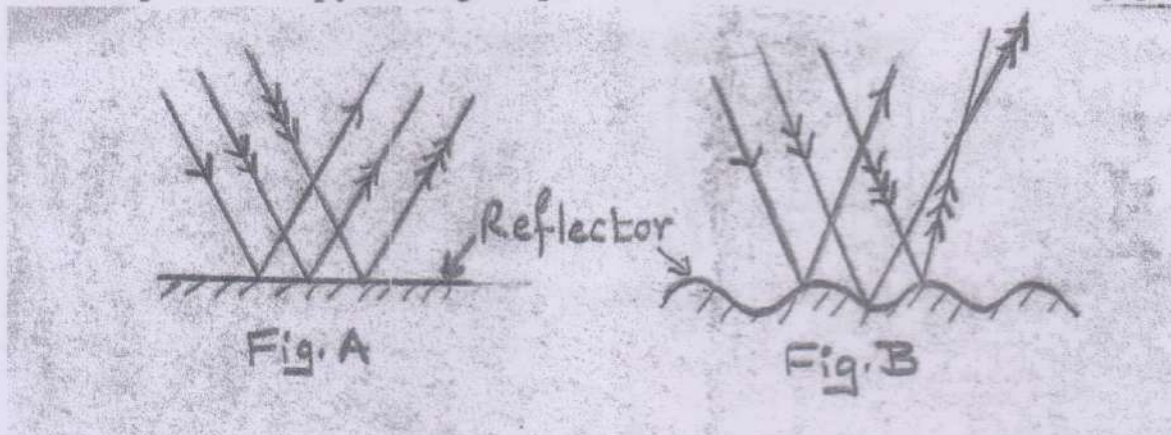
- i) Athlete's foot
- ii) Tuberculosis
- iii) Food poisoning
- iv) Antibiotic
- v) Genetic engineering
- vi) Curd preparation

B] Define: [6]

- i) Ignition temperature
- ii) Pathogens
- iii) Corrosion of metals
- iv) Deposition
- v) Allergy
- vi) Global warming.

Contd.....

Q.5 A] Observe the figure given below and answer the questions that follow: [Do not copy the figure.] [6]



- i) Name the type of reflection seen in the Fig. A and Fig. B.
- ii) Compare both the reflections on the basis of
 - a) Nature of the reflector
 - b) Nature of the reflected rays
- iii) In which figure/s the laws of reflection are obeyed?
- iv) Which type of reflection is useful to see most of the things around us?

B] Write the properties of: [Do not give any exceptions.] [4]

- 1) Metals with respect to i) density ii) Conductivity of heat
- 2) Non-metals with respect to i) Ductility ii) Sonority

Q.6 A] Distinguish between the following pairs on the basis of what is given in the brackets. [4]

- i) Real image and Virtual image (position where it is formed with respect to the plane mirror)
- ii) Boiling and Evaporation (temperature at which it takes place)
- iii) Antibiotics and Vaccines (use)
- iv) Seasonal allergy and Perennial allergy (meaning)

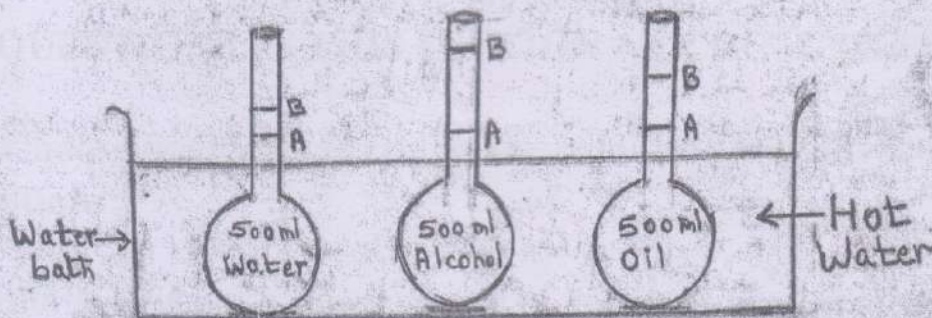
Contd.....

B] Name the following:

[6]

- i) The element which has the properties of both metals and nonmetals.
- ii) A foreign substance that is either inhaled or eaten and is recognized by the immune system as a threat.
- iii) The degree of hotness or coldness of the body.
- iv) The compound form of reactive metal which exists in nature.
- v) The allergic reaction due to pollen grains which lead to cold like symptoms such as running nose, itchy eyes, congestion and sneezing.
- vi) The phenomenon in which left appears as right or vice versa, in the image of the object formed by a plane mirror.

Q.7 A] Observe the figure given below and answer the questions that follow: [Do not copy the figure.] [2]



A - Initial level of the liquid
B - Final level of the liquid

- i) Name the liquid which has expanded the most and which has expanded the least.
- ii) What conclusion you will draw regarding the expansion of liquids on heating?

Contd.....

9A

B] Give two advantages of classification of organisms. [2]

C] i) Name any one air pollutant which is responsible for the acid rain. [1]

ii) How has the acid rain affected the colour of the Taj Mahal? [1]

D] Give two examples of metals which generally do not corrode. [2]

E] How are the telephone wires laid in summer? Why? [2]

BEST OF LUCK.

