GREENLAWNS HIGH SCHOOL
FINAL EXAMINATION YEAR 2025 - 2026

SUBJECT: PHYSICS **CLASS: VIII**
TIME : 2 HOURS **MARKS: 80**

Section A
Attempt all the questions

Q1 Choose the correct alternative and rewrite your answers (15)

i. The perpendicular drawn to the reflecting surface is called
   a) normal
   b) incident ray
   c) reflected ray
   d) none of these

ii. If the amplitude of a sound wave is tripled, the loudness increases
   a) 9 times
   b) 3 times
   c) 2 times
   d) No change

iii. The Relative density of a metal is 2.7, Its density is
   a) 2.7
   b) 2700 g cm^{-3}
   c) 2700 kg m^{-3}
   d) 2.7 kg m^{-3}

iv. Two sources of sound A and B have frequencies 128 Hz and 256 Hz respectively, then to the listener
   a) Sound A will be Shrill and sound B will be grave
   b) Sound A will be grave and sound B will be Shrill
   c) Both sound A and Sound B will be grave
   d) Both sound A and sound B will be shrill.

v. The wire which carries current to the appliance at high voltage is
   a) Earth wire
   b) Ground Wire
   c) Neutral Wire
   d) Phase wire

vi. Early sunrise and late sunset is due to
   a) Reflection of Light
   b) Transmissions of light
   c) Refraction of Light
   d) Diffraction of light

vii. In a flute, a lower note is obtained by
   a) closing some more holes of the flute
   b) opening some more holes of the flute
   c) by blowing the flute with more force
   d) by blowing the flute with less force

p.t.o

viii. A gold leaf electroscope is to be charged negatively by conduction
   a) A positively charged rod is held close to the disc of electroscope
   b) A positively charged rod is placed in contact with the disc of electroscope
   c) A negatively charged rod is held close to the disc of electroscope
   d) A negatively charged rod is placed in contact with the disc of electroscope

ix. A ray of light moving from an optically rarer to a denser medium
   a) Bends away from the normal
   b) Bends towards the normal
   c) Remains undeviated
   d) None of the above

x. Which of the following is the correct image of the English alphabet 'P' when we we see through a plane mirror
   a) P
   b) b
   c) ٩
   d) ٩

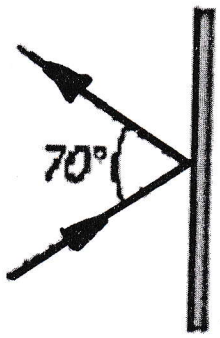
xi. Which of the following results in diffused reflection?
   a) Plane Mirror
   b) Shiny surface
   c) Silver
   d) Wood

xii. An object with a greater mass but same volume as another object will have
   a) Lower density
   b) Higher density
   c) The Same density
   d) Double the density

xiii. Above _____ dB the sound becomes physically painful
   a) 60
   b) 40
   c) 120
   d) 80

xiv. For a floating body, its weight W and upthrust F_B on it are related as below
   a) $W > F_B$
   b) $W < F_B$
   c) $W = F_B$
   d) Nothing can be said

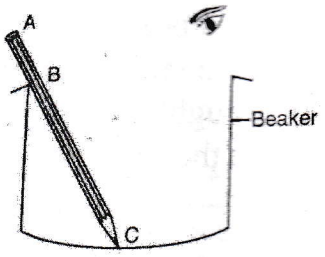
xv. Which of the following is the angle of Reflecttion for the light ray given in the figure



   a) 70°
   b) 60°
   c) 35°
   d) 30°

Q2.

A) Refer to the figure below it shows a pencil placed in a beaker (2)
What will happen if the beaker is filled with water and the observer sees the pencil below? Why?



B) State three safety measures one should take in household electric connection? (3)

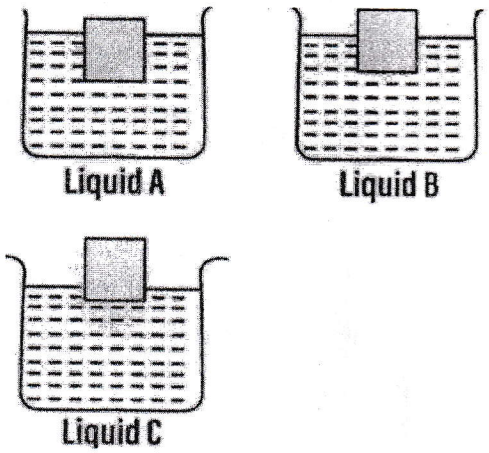
Q3.

A) Match the following : Just write the number on the left column with the Alphabet of the right column. (3)

1. Real Image	a. Occurs when a beam of light falls on a plain mirror
2. Regular reflection	b. Is erect with respect to the object
3. Virtual image	c. Copper strip
4. Lightning conductor	d. Occurs when a beam of light falls on the wall of a room
5. Irregular reflection	e. Alloy of lead and tin
6. Fuse	f. Is inverted with respect to the object

B) i. State the law of floatation? (3)

ii. Observe the figure below where a block of solid is placed in liquids with varying densities



a) Which liquid has the highest density?

b) Arrange the densities of the liquids in descending order?

C) Distinguish Between (Two Points each) (4)

i. Neutral wire and Earth wire (Colour, Purpose)

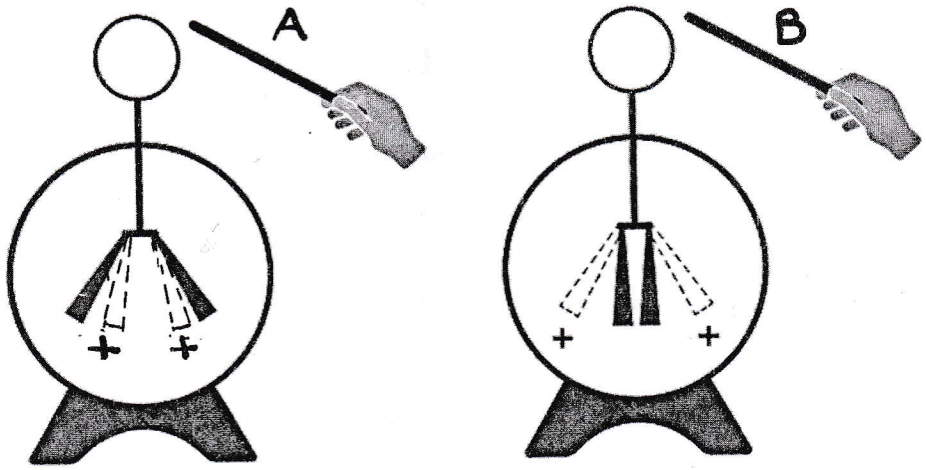
ii. Relative Density and Density (Definition, unit)

Q4

A) i. Define an electroscope. (5)

ii. Name the two ways in which an electroscope can be charged

iii. Refer to the figure given below. It shows a positively charged gold leaf electroscope. (The dotted lines indicate the initial position of the gold leaf Electroscope) Two rods A and B are brought near the positively charged gold leaf electroscope. Mention the charge on the rods in A and B respectively.



B) State Whether the following statements are true or false . (5)
also rewrite the Correct statement.

i. To find whether a body is charged or not , a charged electroscope is used.

ii. Sound travels in air in the form of transverse wave

iii. The density of a solid decreases with increase in its temperature

iv. The Fuse wire is always connected with the live wire.

v. When two substances are rubbed on each other, like charges are developed on each.

SectionB
Attempt all the questions

Q5.

A) Give reasons: (8)

i. Sound cannot reach us from space

ii. An iron needle sinks in water, but a ship made of iron floats on water

iii. A lightning conductor is used to protect buildings from being damaged due to lightning.

iv. Water is optically rarer than glass

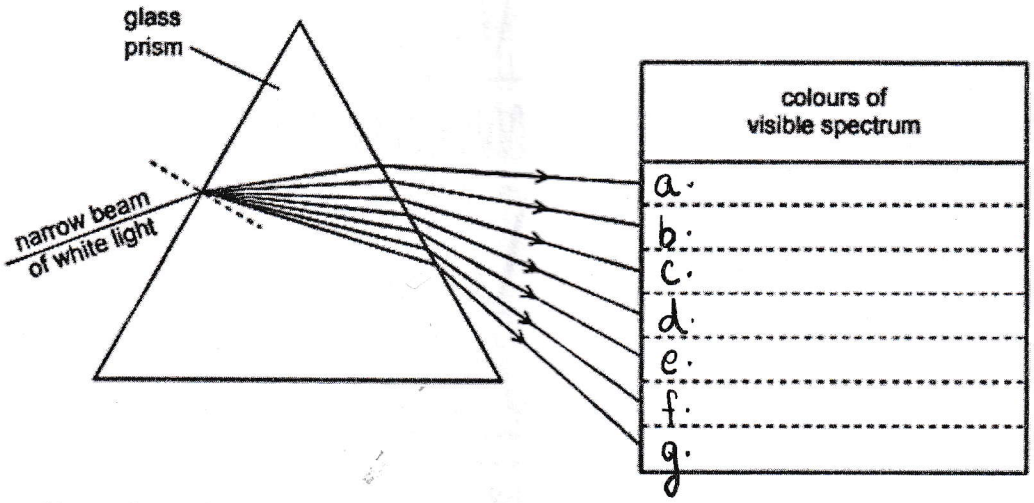
B) Choose the odd one out giving reason: (2)

i. Area of vibrating body, Sensitivity of listener, Amplitude, Temperature.

ii. Wood, cork, iron nail, ice

Q6.

A) A narrow beam of white light enters a glass prism and splits into colours of the Visible spectrum. (5)



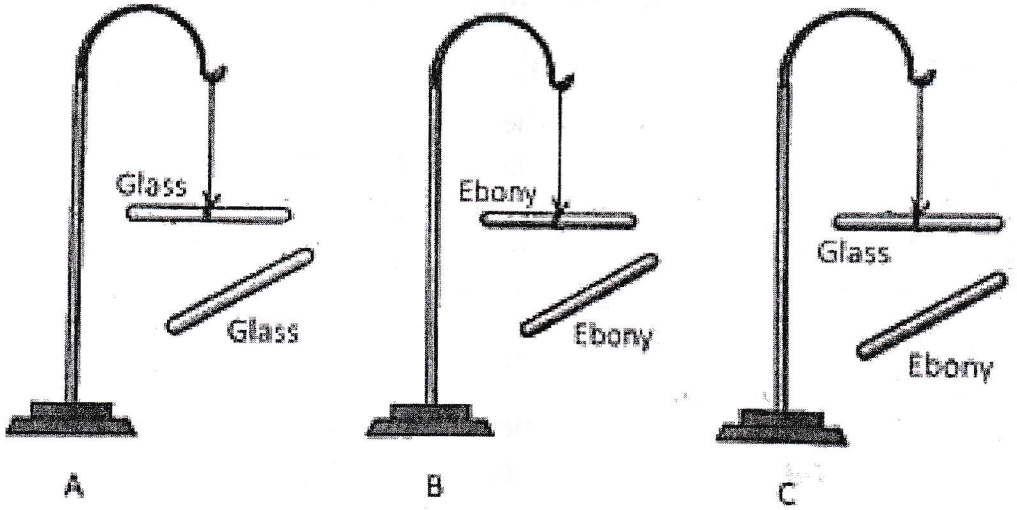
i. Complete the diagram by writing all the colours of the visible spectrum (Do not redraw the diagram. Just mention the colours against the alphabets)

ii. State the term used to describe the different amount of bending that produce the spectrum. Define this term.

iii. State the cause of the above phenomenon

iv. Which colour light is deviated maximum and minimum?

B) Study the pictures A, B and C given below and answer the following questions Based on the figure: (write the answers only) (3)



(a) In the case of 'A' two glass rods rubbed with silk _____ each other because both the rods bear _____ charge on them

(b) In the case of 'B' two rubber (Ebony) rods rubbed with fur _____ each other because both the rods bear _____ charge on them.

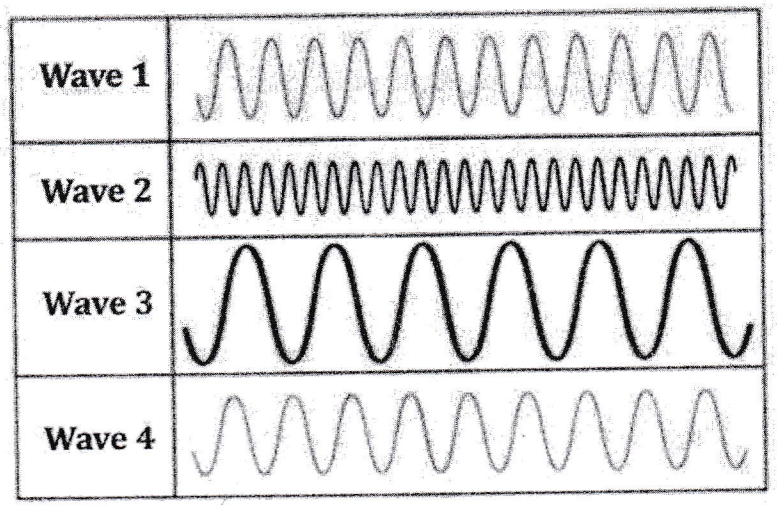
(c) In the case of 'C' two rods (glass and rubber) _____ each other because both the rods bear _____ charge on them.

C) State the two laws of Reflection? (2)

Q7.

A) Refer to the figure below: (3)

The picture shows four sound waves.



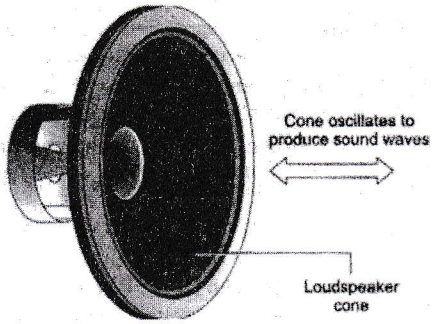
i. Which waveform shows the highest Pitch?
ii. Which waveform is the loudest?
iii. Name the source of sound of single frequency?

B) The Volume of an object is 8 cm^3 and mass of the object is 84 grams. (3)
What is the density of the object in kg m^{-3} ?

C) State four characteristics of the image formed by plane mirror (4)

Q8.

A) Figure below shows a loudspeaker cone oscillating to produce sound waves



i. As the sound wave passes a point, it produces regions of higher and lower Pressure. The regions of higher pressure are known as _____ and the Regions of lower pressure are known as _____. (2)

ii. Define a) Amplitude and b) Wavelength of a sound wave produced from the loudspeaker (2)

B) An insect is sitting in front of a plane mirror at a distance of 2 metre (2)
i. Where is the image of the insect formed
ii. What is the distance between the insect and its image.

C) The mass of empty density bottle is 35 g, It is 80 g when filled completely with water and 60 g when filled completely with liquid Find: (4)
i. Volume of density bottle
ii. Density of liquid and
iii. Relative density of liquid.