Greenlawns School, Worli Final Examination Physics

STD: VIII Date: 25/02/2016

Marks: 80 Time: 2hrs.

INSTRUCTIONS:-

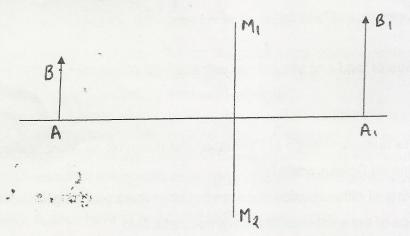
- Answers to this paper must be written on the paper provided separately.
- You will not be allowed to write during the first 15 minutes.
- This time is to be spent in reading the question paper.
- The time given at the head of this paper is the time allowed for writing the answers.
- All working, including rough work, must be clearly shown and must be done on the same sheet as the rest of the answer. Omission of essential working will result in the loss of marks.
- The intended marks for the questions or parts of question are given alongside the questions.
 - Geometrical figures to be constructed wherever applicable.
- For geometry, figures have to be copied to the answer script.

	SECTION A (40 Marks)	
Que	estion 1	A TO MANY
a.	Can you able to hear the sound produced due to the vibration of second pend	ulum? Give
	reason for your answer.	[2]
b.	State any two properties of magnetic field lines.	[2]
C.	What do you understand by poles of magnets?	[2]
d.	Define the focal length of a mirror and state its SI unit.	[2]
e.	Discuss the position and the nature of the image formed by a convex mirror w	hen an object
	moved from infinity towards the pole of the mirror.	[2]
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Que	stion 2	
a.	explain why a wooden false ceiling provided in cold countries?	[2]
b.	Name the sounds of the frequency given below:	
	i) 10 Hz, ii) 200 Hz, iii) 2000 Hz, iv) 45 kHz	[2]
c.	State and define the SI unit of frequency	[2]
d.	What is the meaning of term induced magnetism	[2]
e.	The speed of a wave is 350 m/s. Find the wavelength of the wave whose frequency	uency is 700 Hz.
		[2]
Que	stion 3	that some foliate
a.	Explain why platinum wire fuses more easily in glass than copper wire.	[2]

b.	Explain why Borosil /Pyrex glass used for heating directly on flame.	rat
C.	The average body temperature of a healthy person is 98.4°F. Calculate the correspondence of the correspondence	[2]
	temperature on the Celsius scale.	[2]
d.	Why it is not possible to talk through open space on the surface of the moon?	
e.	Differentiate between heat and temperature.	[2]
		[2]
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	estion 4	
a.	Draw a graph to show the variation in density of water with temperature in the range 10°	from 0° to
b.	Why double glass window panes used in cold countries?	[2]
C.	* Mud house with a thatched roof mars as a first that the standard of the stan	[2]
d.	Mud house with a thatched roof more comfortable for living than a concrete house?	[2]
-	Explain how the aquatic animal survives in pond even when the atmospheric tempera well below 0° C	ture is
е		[2]
	What do you understand by the poles of the magnet? and what is the length between of magnet whose length is 12 cm	two poles
		[2]
	Section II	
Que	(Attempt any four questions)	
a.	Which mirror will be preferred as rear view mirror in truck: plane mirror or convex mirror	
	Explain your answer with a proper ray diagram.	
b.	A mercury thermometer is transferred from pure melting ice to water kept in a bucket.	[3]
	mercury level rises to two-fifth of the distance between the lower and the upper fixed p	The
	Find the temperature of water in i)°C ii)°F and iii) Kelvin.	
C.	What is ultrasonic sound? State three important properties of it.	[3]
	and an earlier properties of it.	[4]
Que	stion 6	
a.	How does the following factor affect the speed of sound in air?	
	i) Moisture in air, ii) pressure in air, and iii) temperature of air.	701
b.	Differentiate between three modes of transmission of heat	[3]
	and the state of t	[3]

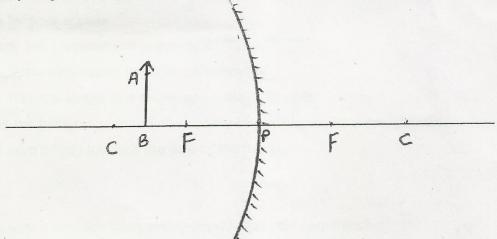
c. In the given figure AB is the object and A¹B¹ is its image and M₁M₂ is the position of the mirror.

Complete the ray diagram and locate the position of centre of curvature of the mirror. Also measures the focal length of the mirror



Question 7

- a. What is the green house? How does the air inside remains warm? [3]
- b. Given figure shows the concave mirror with its pole at P, focus F and centre of curvature C.Draw ray diagram to show the formation of image of an AB by the concave mirror. [3]



i. How much will a bar of aluminum, 100 cm long, expand when heated from 20° C to 100°C?
 Co-efficient of linear expansion of aluminum is 2.5 x 10⁻⁵ °C⁻¹ [3]
 ii. Co-efficient of cubical expansion of cupper is 5.1 x 10⁻⁵ °C⁻¹. Calculate the Co-efficient of linear expansion.

Question 8

a. What do you understand by the term neutral point? How is the position of neutral point located with the help of compass needle? [3]

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