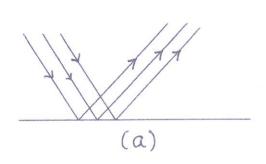
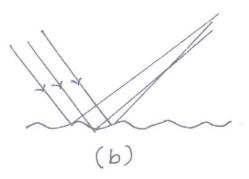


GREENLAWNS HIGH SCHOOL TERMINAL EXAMINATION YEAR 2017-2018

SUBJEC TIME	CT: PHYSICS: 1½ HOURS	CLASS MARKS	: VII :80
Note:- i) ii) iii) iii) iv)	The first ten minutes are meant for head of the paper is the time allow Section A is compulsory. Attempt In Section B, attempt any 4 quest All answers to be written on the wherever required. (ON THE SA Section Sect	pt all questions from this section. stions out of 5. answer booklet. Show the working and calcul AME PAGE) ion A (40 Marks) he pairs:	at the
i) ii) iii iv v) vi	Nano Mega Giga	Column B a) 10 ⁻⁶ b) 10 ⁻² c) 10 ⁻⁹ d) 10 ⁶ e) 10 ⁻⁶ f) 10 ³ g) 10 ⁹	
 i) The maximum displacement of the particle of the medium on either side. ii) The process of comparing a given physical quantity with a known standard quantity of the same nature. iii) Two system of units used. iv) The unit of distance which is the mean distance between Earth and Sun. v) Returning back of light in the same medium after striking a surface. vi) Bodies which emit light by themselves. vii) Change from vapour state to liquid state on removal of heat. 			(1) (1) (1) (1) (1) (1) (1)
1) M 2) E	Distinguish between:- (2 points lass and weight vaporation and boiling iquids and gases	each)	(6)
i) Va ii) W	Define:- aporization avelength usion itch		(4)

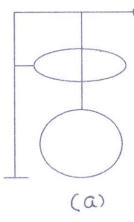
Q.III A) Answer the following questions with the help of the figure.

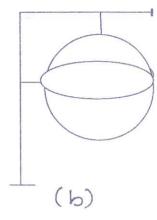




- i) Why is phenomenon (b) taking place. (1)
- ii) Define the phenomenon (a) and (b). (2)
- iii) Name one surface from which (a) is possible. (1)
- iv) State two laws of reflection. (2)
- B) Give the least count of: (4)
- i) Metre rule -_____ii) Vernier Calliper -
- iii) Micrometer Screw Gauge -
- iv) Stop Watch -

Q.IV A) Answer the following questions with the help of metal ball and ring diagram given below:-





- i) What do you observe in diagram (b). Why? (2)
- ii) What conclusion can be drawn from the above two diagrams? (1)
- B) i) What is superficial expansion. (1)
 - ii) Name any 2 factors on which superficial expansion's increase depends. (2)
- C). Give Reasons:
 - i) Small gaps are left between two rails of a railway track. (1)
 - ii) Food cooks faster in a pressure cooker. (1)
 - iii) Doctors advise to put strips of wet cloth on the forehead of a person with high fever.(1)
 - iv) The membrane of the tabla is stretched by the means of strings. (1)

Section B (40 Marks)

(Attempt any 4 questions out of 5) Q.V A) What is monotone? Name a device that produces such a sound. (2)B) Describe 3 factors that affect the rate of evaporation. (3) C) Name 3 properties which decide the state of a substance. (3) D) Two waves travelling in the same direction having the same pitch, have their (2) amplitudes in the ratio 1:2. What will be the ratio of their Loudness i) ii) Pitch Q.VI A) Why does the loudness of a plucked wire increase when mounted on a wooden (1) board? B) Fill in the blanks by choosing the correct option:-(2) _____temperatures. (all/fixed) i) Boiling occurs at ii) The unit of loudness is (decibel/hertz) iii) Sound travels fastest in and slowest in (solids, liquids, gases) C) Calculate the density of a solid having mass of 64 g and volume of 100 cm³. (2)D) Name 4 factors on which loudness of sound depends. (2) E) What do you understand by the term: (2) i) Quality ii) Pitch F) Define light year. (1)Q.VII A) What is the safe limit for humans to hear sound? (1)B) Calculate the volume of a cuboid whose length = 10 cm, breadth = 20 cm and (2) height = 5 cm.C) State any 3 factors based on which a good unit can be chosen. (3)D) Decide if 2400 is going to be a leap year or not? (show your calculations) (1)E) Give the equation to show the relation between loudness and amplitude. (1)F) What are fundamental and derived quantities. Give an example to support your (2) answer. Q.VIII A) Give any 2 characteristics of molecules. (2) B) What is lateral inversion. Write the laterally inverted image of the word (3) "GREENLAWNS". C) How is a lower note obtained in case of a flute? (2)D) Write an equation showing the relation between frequency and time? (1)E) What is a thermostat? Where is it used? (2)Q.IX A) Define coefficient of linear expansion? Also state its unit. (2)B) Why is invar used to make pendulum clocks? (1) C) What do you understand by total internal energy? Give its S.I unit. (2)D) Give any two effects produced by heat? (2) E) What is anomalous expansion of water. (2)F) Give the level above which sound becomes noise for a normal listener. (1)