

14. (a) Compare longitudinal and transverse wave motion and write the conditions for good auditorium.

OR

- (b) Explain the effect of temperature on viscosity of liquids and gases, and define surface tension and capillarity and give two examples each.

15. (a) Derive an expression for the magnetic induction field strength at a point on the axial line of a bar magnet. An electric heater draws a current of 25 A from 120 V supply. What is its resistance?

OR

- (b) Explain the principle and working of an optical fiber and write any three applications of superconductors.

PART—C

10×

- Instructions : (1) Answer the question.
(2) It carries ten marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

16. For an ideal gas, show that the difference of molar specific heats (C_p and C_v) is equal to universal gas constant (R).

The molar specific heat of gas at constant volume is found to be $5 \text{ cal mol}^{-1}\text{K}^{-1}$. Find the ratio of molar specific heats (C_p and C_v) for the gas, if universal gas constant $R = 2 \text{ cal mol}^{-1}\text{K}^{-1}$.

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G Orfield



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Publications United States. National Bureau of Standards,1986

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