Model Paper 2014 Physics

Inter 1st Year

Time: 3 Hours

Max.marks:60

Section – A

Answer all questions, each carry two marks. **10x2 =20marks**

1. What is the discovery of C.V.Raman?
2. Write the dimensional formulae for the following quantities.

    1. Gravitational constant 2. Surface Tension

3. A ball falls freely from a height 1m on the ground and rebounds to a height of o.8m. Find the coefficient of restitution.
4. Distinguish between centre of mass and centre of gravity.
5. What are the theoretical and practical limits of Poisson's ratio?
6. Find the excess pressure inside a liquid drop?
7. Hot liquids flow faster than cold liquids? Explain.
8. What is the specific heat of a gas in a) an isothermal change and b) an adiabatic change?
9. State the conditions under which Newton's law of cooling is applicable?
10. What is Greenhouse effect?

Section – B

Answer any six questions

Each carry four marks **6x4= 24 Marks**

11. State parallelogram law of vector addition and derive an expression for its magnitude.