

**SECOND SEMESTER  
2004 ENGINEERING PHYSICS – II  
MODEL QUESTION PAPER - 1**

Time : 3 Hrs

Max Marks : 75

**PART- A**

Marks 15 x 1 = 15

**Note :** Answer any 15 Questions.

1. Define convection.
2. Define co-efficient of thermal conductivity.
3. Write the expression for root mean square velocity of molecules.
4. Define specific heat capacity of a substance.
5. Write First Law of thermodynamics.
6. Define isothermal change.
7. Define temperature of inversion.
8. Write any two advantages of renewable energy.
9. Write the Snell's law of refraction.
10. What is population inversion?
11. Write any two applications of photoelectric cells.
12. What is remote sensing?
13. Define resistivity.
14. Write Joule's law of heating.
15. Write Fleming's Left Hand Rule.
16. Define mutual induction.
17. Define 'farad'.
18. What is a 'hole'?
19. Write the three possible configurations in which a transistor can be connected.
20. Write the various levels of integration.

**PART- B**

Marks 5 x 12 = 60

**Note :** i) Answer all Questions choosing any two sub divisions from each question.

ii) All sub divisions carry equal marks.

- I a) List the properties of thermal radiation.
- b) Derive an expression for the pressure of a gas on the basis of postulates of kinetic theory of gases.

# Model Question Paper For 1

**Raffaela Di Napoli**



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