

Physics (G.E/GEN)

Answer any four question:-

- Q1. Discuss Fourier's theorem
- Q2. Define :- a) Half-period zone
b) Plane polarized light
- Q3. Derivation Double slit.
- Q4. Discuss Sabine's formula.
- Q5. What is phase velocity?

UG - Sem - IV Exam - 22 (21-24)

Physics (Core - VIII)

Answer four question:-

1. State and prove De-Moivre's theorem.
2. Prove Cauchy Integral formulae.
3. State and Prove Fourier Integral theorem.
4. Prove Cauchy-Riemann conditions for analytic function.

Physics (Core - IX)

Answer four question:-

1. Discuss Schrodinger time independent wave equation.
2. Derive its expression of Compton effect?
3. Explain Heisenberg's uncertainty principle?
4. Experimental demonstration of matter waves?

Physics (Core - X)

- Q1. State and Prove De-Morgan's theorem.
- Q2. Discuss the theory of Half-adder & full adder.
- Q3. How does AND gate realised using diode and transistor.
- Q4. Why NAND gate is known as universal gate?