

D&E-3. Classical dynamics

* Answer any three question:-

- Q1. Derive Hamilton's principle?
- Q2. Discuss canonical transformations?
- Q3. What is Lorentz transformations?
- Q4. What is Time-dilation and length contraction?

D&E-4. ~~Communication system~~ (Nuclear & Particle Physics)

Answer any three question.

- Q1. Derive electromagnetic communication spectrum?
- Q2. What is Binding energy?
- Q3. Discuss Geiger-Nuttal law?
- Q4. Write a short notes on Rutherford's experiments of nuclear transmutations?