

Module 1

Q Define the term wave?

Q Write short note on waves on a string?

Q How ^{can} you classify the waves discuss in details?

Q What do you mean by Harmonic waves?

Q Derive the wave equation for a wave on a string?

Q Explain the process of reflection and transmission of waves at a boundary?

Q What are standing waves?

Q List out the properties of standing waves

Q Define the term eigen frequency?

~~Q~~ Explain the eigen frequency of standing waves?

Module 2

Q Explain How gradient and curl act on a fn and give its physical significance?

Q What is divergence. Explain with a suitable example?

Q Write short note on the physical significance of

① Line "

② Surface integral

③ Volume "

Q Discuss the physical significance of surface integral and volume integral? State

Q What are Maxwell's equations. Define the ~~last~~ laws and explain in detail.

- 1 Give the differential and integral form of Maxwell's equation
- 2 Explain the concept of displacement current in detail and list out its importance.
- 3 Write short note on electromagnetic waves? and list out its properties.
- 4 Derive the electromagnetic wave eqⁿ in free space.
- 5 Explain the plain electromagnetic waves in free space and give the wave eqⁿ?
- 6 Explain e Here's Experiment & Discuss the Outcomes?

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