

**Alternate Fuels and Energy
Important 10 Mark questions**

Unit I

1. Write a detailed account on availability of petroleum products.
2. Explain about the survey of oil consumption.
3. Explain the availability of alternate fuel.

Unit II

1. Explain the production of methanol fuel.
2. Explain the fuel flexible vehicle.
3. Briefly about the emission characteristics of LPG in SI engines.

Unit III

1. What are the different methods for storage of hydrogen? Explain in detail.
2. Explain the engine modification required for using CNG in SI engine.

Unit IV

1. Explain about any three types of vegetable oil in engines.
2. What are the problems experienced while using vegetable oil in diesel engine.
3. Explain the esterification process.

Unit V

1. Draw a block diagram for solar powered vehicle and explain.
2. Explain the electronic control system used in electronic hybrid vehicle.
3. Write the advantages and limitations of electrical vehicles.