



	(a) What is the need of alternative fuels? Discuss the barriers in implementing alternative fuels in India.	07
	(b) Describe properties & production process of methanol.	07
<b>Q-3</b>	<b>Attempt all questions</b>	
	(a) Discuss production and storage of hydrogen.	07
	(b) Explain construction and working of Wankel engine with neat sketch	07
<b>Q-4</b>	<b>Attempt all questions</b>	
	(a) Explain the production process of ethanol with reaction process.	07
	(b) Explain Stirling engine with necessary sketches.	07
<b>Q-5</b>	<b>Attempt all questions</b>	
	(a) Explain solar powered vehicle with suitable sketch.	07
	(b) Explain biodiesel production process.	07
<b>Q-6</b>	<b>Attempt all questions</b>	
	(a) With neat sketch discuss construction and working of electric vehicle.	07
	(b) Discuss Multi fuel/duel fuel engine.	07
<b>Q-7</b>	<b>Attempt all questions</b>	
	(a) Explain different components of CNG conversion kit with suitable sketches.	07
	(b) Discuss Eco friendly plastic fuels(EPF)	07
<b>Q-8</b>	<b>Attempt all questions</b>	
	(a) Explain series type & parallel type hybrid electric vehicle with neat schematic diagrams.	07
	(b) Write a short note LPG as a fuel in vehicle.	07

