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		TLLIOS SS SN Sterma Liuc	
		B.Tech. Degree Examinat (2008 Scheme) 21 : ALTERNATE ENERGY	AND STATISTICS OF THE PROPERTY OF THE STATE
T:	200	III - okušoM	Max. Marks: 100
) im	e : 3 Hours		ed rusique visado a
An	swer all questions:		
1.	Why hydrogen engine car	nnot produce the same power as	s that of gasoline?
2.	What are the components	s of a flat plate collector?	THE STUTE
3.	Discuss the properties of	biogas.	e fuel.
4.	State the various perform	nance of natural gas as an engin	e fuel.
5.	State the performance of	methanol and gasoline blends.	3 (100)
6.	Compare flat plate collec	tors and concentrating collector	S. KANI
7.	State some of the limitati	ions of electric vehicles.	3 5
8.	Compare the properties	of LPG and gasoline w.r.t. their u	ise in SI engines.
9.	9. Differentiate between a hybrid vehicle and an electric vehicle.		
10.	What are the different type	oes of batteries used in electric	vehicles ? Compare. (10×4=40 Marks)
		PART-B	
A	nswer <b>any one</b> question fr	om <b>each</b> Module :	
	- 2,		8 1 2 7
	W	Module – I	40
11.		on characteristics of alcohols in	
	* *	nethods used for producing hydro	
12.	What are the various alte sector? Explain each or	ernate energy sources available ne of them briefly.	in the transportation 20



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## Module - II

- 13. What is LPG? State some of the important properties of LPG as an alternate fuel. Explain its performance as an SI engine fuel.
- 14. With a neat sketch explain the working of a floating dome type biogas plant. Explain the various stages in biogas production.

## Module - III

- 15. a) Briefly explain the principle of photovoltaic conversion.
  - b) What is the difference between a PV cell and a PV module? Explain the working of a PV module.
- 16. What are the various modes of operation of an electric vehicle? Explain them with a neat sketch.

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