SHAHEE	D BHAGAT SINGH STATE TECHNICAL CA	MPUS FEROZEBUD
ROLL NO:	:	
Total numb	ber of questions: 06	Total number of pages: [92]
	B.TechEE/8th Sem	
	Non Conventional Energy Sou	Irone
	Subject Code: BTEE-803	Reg) RP
	Paper ID:	2/10
	Batch: 2011onwards	
Time allow	ved: 3 Hrs	Wal.
Important Ins		Max Marks: 60
	A is compulsory	
	e any missing data	
	PART A (2×10)	
QI.		
(-) D.C		
	thomson effect.	
(b) What ar	re the advantages of non conventional energy sources	
	e components of a fuel cell.	
	lifferent types of solar collectors photovoltaic effect.	
	t and drag for a wind energy generator.	
(a) Give the	hasic principle of MID	
(h) How ged	e basic principle of MHD power generation. othermal energy can be extracted?	
	plications of wind energy.	
	e primary and secondary energy sources?	
0,	primary and secondary energy sources?	
	PART B (5×8)	
Q2. Explain the go	eneral description and construction of a fuel cell with near	t diagram and also derive the
expression fo	or Gibb's free energy.	CO2
	OR	

What are the different types of photovoltaic cell and explain any one of them?

Q3. Explain with a suitable diagram the construction of a thermoelectric generator. Give the applications of thermoelectric generator. CO2 Define geothermal energy. What are the possible sources of geothermal pollution? How these can be avoided? Q4. Compare the advantages and disadvantages of conventional & non conventional energy CO1 sources. OR Discuss in detail the main components of tidal power plant. Also give the advantage and limitations of tidal power generation. Q5. What is the principle of MHD power generation and briefly explain its system? CO3 OR What are the important factors to be considered while selecting for MHD generator? What is the primary advantage of MHD approach to energy generation? Q6. Write the short notes on following: CO₂ a) Wind energy b) Biomass energy OR c) Seebeck effect d) Peltier effect