S B	Roll	No
J.D.	TOIL	NO

NON-CONVENTIONAL ENERGY SOURCES 5 th exam/Electrical/5520/3552/May-2015				
Duration: 3hours		M.M: 75		
	SECTION-A			
Fill in	the blanks:	(10x1.5=15)		
1.	WECS stands for			
2.	Solar cell is made up of			
3.	MHD stands for			
4.	Solar cell works on principle			
5.	OTEC stands for			
6.	Waste product of H ₂ -O ₂ fuel cell is water. (T/F)			
7.	Non-conventional sources and non-renewable sources are same. (T/F)			
8.	Biomass energy causes pollution. (T/F)			
9.	Solar furnace converts solar heat into electricity. (T/F)			
10	. Thermocouple works on Seeback Effect. (T/F)			

SECTION-B

Do any Five: (5x6=30)

- 1. Explain the working of Open cycle MHD with working principle and diagram.
- 2. Write a note on Biomass gasification.
- 3. Explain working of solar cooker with diagram.
- 4. Write short note on working of a fuel cell. Give advantages and disadvantages
- 5. Explain working of any one solar water heater with neat sketch.
- 6. Write about site selection considerations for WECS.
- 7. Define Seeback effect, Joule effect and Peltier effect.

SECTION-C

Do any Three: (3x10=30)

- 1. What is Biomass? Write short note on various types of Biomass conversion techniques.
- 2. Explain the working of small hydro power plant using flow diagram.
- 3. Explain the working of closed cycle OTEC system with diagram.
- 4. Write short detail on basic components of WECS using diagram.