

Course: B. Tech in Civil/Mechanical Engineering

Sem: I

Subject Name: Energy and Environmental Engineering

Subject Code: BTES105

Max Marks: 20

Date:- 04 /10/2019

Duration:- 1 Hr.

Instructions to the Students:

1. All questions are compulsory.
2. Figures to right indicate full marks
3. Illustrate your answers with neat sketches wherever necessary.
4. Assume suitable data, if necessary.

	(Level/CO)	Marks
Q. 1 Fill in the blanks-		6
1. The major field(s) of application of gas turbine is (are) a. Aviation b. Oil and gas industry c. Marine propulsion d. All of the above	Understanding	
2. Major share of power generated in India is through a. Thermal power plants b. Nuclear power plants c. Hydro-electric power plants d. Solar energy	Applying	
3. No moving parts are required in a. MIID generator b. Tidal power plant c. Thermionic conversion d. OTEC power plant.	Understanding	
4. Bagasse is a. low quality coal b. a fuel consisting of wood c. fibrous portion of sugarcane left after extracting the juice d. a kind of rice straw.	Applying	
5. Modern steam plants works on which of the following cycles? a. Carnot cycle b. Rankine cycle c. Otto cycle d. Bell- Coleman cycle	Understanding	
6. Which of the following is not used as moderator? a. Water b. heavy water d. graphite e. boron	Understanding	

Q.2 Solve Any Two of the following.

3 X 2

- (A) Compare relative characteristics of HAVT & VAWT. **Understanding**
- (B) Explain Thermo Electric Generators? **Applying**
- (C) Explain with the help of diagram the Principal and Working of OTEC System **Understanding**

Q.3 Solve Any One of the following.

8

- (A) Explain Nuclear Power Plant? Also state its Advantages, Disadvantage. **Understanding**
- (B) Explain Magneto Hydro Dynamics (MHD) System Also state its Advantages, Disadvantage. **Understanding**

***** End *****

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