P.T.O.

**BIME-017** 

## B.Tech. MECHANICAL ENGINEERING (BTMEVI)

## Term-End Examination December, 2012

## **BIME-017: POWER PLANT ENGINEERING**

Tim	e : 3 h	ours Maximum Marks :	Maximum Marks : 70		
<b>Note</b> : Answer <b>any five</b> questions.					
1.	(a)	What are the different types of Fuels? Explain how coal is formed.	7		
	(b)	Explain about Hydro Electric Power generation with skeleton diagram.	7		
2.	(a)	What is meant by Nuclear Energy? Explain Nuclear Fission and Nuclear Fusion.	8		
	(b)	Classify Power Plants with its location.	6		
3.	(a)	<b>- J</b>	10 4		
	(b)	Write about the essentials of Steam Power Plant.	4		
4.	(a)	What is function of a Boiler? Explain the types of Boilers with emphasis on water tube Boilers.	8		

1

	(D)	method with suitable sketch.	Ū
5.	(a)	Explain LAMONT Boiler with neat diagram.	10
	(b)	What is "Mechanical drought" ? Explain.	4

Describe "Comprhest Control" by excess air

6

- 6. (a) What is function of Steam Turbine? Explain 10 about Impulse steam turbine with neat diagram.
  - (b) List the advantages and disadvantages of **4** steam turbines.
- 7. Answer any two of the following: 7x2=14
  - (a) Water cooled Surface Condenser
  - (b) Steam Power Station Control
  - (c) Nuclear Power Reactor
  - (d) Fuel injection System of an IC Engine.

(1-1