

Roll No. ....

**24479**

**B. Tech 7th Semester (ME)  
Examination – May, 2018**

**POWER PLANT ENGINEERING**

**Paper : ME-407-F**

*Time : Three Hours ]*

*[ Maximum Marks : 100*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note : Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.*

1. Write short notes on the followings :

- (a) PFBC.
- (b) PWR.
- (c) OTEC.
- (d) Geothermal Power Plant

## SECTION - A

2. What are the energy resources and explain the ways of their availability ?
3. Explain Hydro- Electric Power Plant in detail with plotting of various curves for estimating stream flow.

## SECTION - B

4. Explain the working of modern - Thermal Power Plants with flow of sheets also describe the super critical pressure steam station.
5. Discuss the constant pressure gas Turbine Power Plants with neat sketch.

## SECTION - C

6. Explain how the arrangements of gas power plants carried out and discuss the repowering systems with gas production from organ Fluids ?
7. Describe the principle of nuclear energy in case of Nuclear Power Plants. Explain the CANDU reactor with neat sketch.

## SECTION - D

8. How solar radiation estimation is carried out ? Discuss the working of solar energy collectors.
  9. Discuss the Thermo Electric Power generation system with neat sketch.
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