

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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