

www.FirstRanker.com

www.FirstRanker.com

Roll No. Total No. of Pages : 02	Non No. — Total No. Of Lages . Va
----------------------------------	-----------------------------------

Total No. of Questions: 18

B.Tech.(ME) (2012 Onwards E-II) (Sem.-7)
POWER PLANT ENGINEERING

Subject Code : DE/ME-1.8 M.Code : 72004

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly:

- What is the working principle of Benson boiler?
- 2. What are magneto-hydrodynamic systems?
- 3. How the site selection of a steam power plant is done?
- Define run-off. What are the factors affecting it.
- Enlist various types of tariffs
- What is a moderator? Name common moderators.
- What is a solar pond?
- 8. What are the functions of a draft tube in hydroelectric power plants?
- Draw a schematic diagram of an intercooled gas turbine.
- Differentiate between two stroke and four stroke diesel engine.

1 | M - 72004 (S2) - 732





SECTION-B

11.	What are	the methods	to generate	electricity	from city	refinge?
11.	winat are	uic incuious	to generate	CICCUICITY	HOIH CILV	ICIUEC:

- Define the terms :
 - a) Hydrology
 - b) Hydrological Cycle
 - c) Runoff
- 13. What are the advantages and disadvantages of diesel power plant as compared to other power plants?
- Explain various methods of coal handling.
- 15. What are the various methods to forecast the load requirements of a power plant?

SECTION-C

- 16. How the power from solar energy can be obtained? Explain the methods in detail.
- Explain the construction and working of CANDU reactor with neat diagram. What are its www.FirstRan advantages and disadvantages?
- Write short notes on :
 - a) ESP
 - b) Fuel cells

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 | M - 7 2 0 0 4 (S2) - 732

