Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY DIPLOMA ENGINEERING – SEMESTER – IV-EXAMINATION – WINTER 2015

Subject Code: 3345503

Date: 04/12/2015

Total Marks: 70

Subject Name: Plant Equipment Erection & Maintenance Time: 02:30 PM TO 5:00 PM

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. Each question carry equal marks (14 marks)

Q.1	(a)	Prepare Classification chart of different types of Plants. Draw Product type plant lay out.	07
	(b)	Draw neat sketch of thermal Power Plant. State functions of each element.	07
Q.2	(a) (b)	Describe meaning of the term IBR. State factors affecting selection of Boiler. Draw neat sketch of Cochran Boiler. State functions of each element. OR	07 07
	(b)	Draw neat sketch of Heat Exchanger. State functions of each element.	07
Q.3	(a)	Draw neat sketch of Centrifugal Pump. Prepare classification chart form of Pumps.	07
	(b)	Define the term "Valve". State its function and application. OR	07
Q.3	(a) (b)	Describe working of Reciprocating Compressor with neat sketch. Draw neat sketch of Globe Valve. State its functions and application.	07 07
Q.4	(a) (b)	State and explain factors affecting selection of Material Handling Equipment. Describe Working of Agitator with neat sketch. OR	07 07
Q. 4	(a) (b)	Defferntiate between Fan and Blower with neat sketch. Describe Filter and State its functions with neat sketch.	07 07
Q.5	(a)	Find Center of Gravity for the T-section having following dimensions: Flange:- 60mm×40mm Web :-70mm×30mm	07
	(b)	Define the term "Maintenance". List different types of Maintenance. State functions of Maintenance Department.	07
05	(\mathbf{a})	OR State meaning of the term "Corrosion". Describe Methods of its Prevention.	07
Q.5	(a) (b)	Describe installation procedure for a Machine/Equipment with neat sketch.	07 07
