Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- III EXAMINATION - SUMMER 2015

Subject Code: 133405 Date: 09/06/2015

Subject Name: Manufacturing and Assembly Drawing

Time: 02.30pm-05.00pm Total Marks: 70

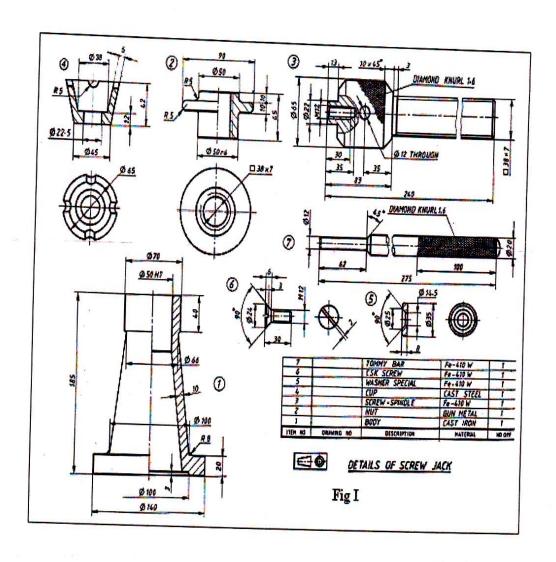
Instructions:

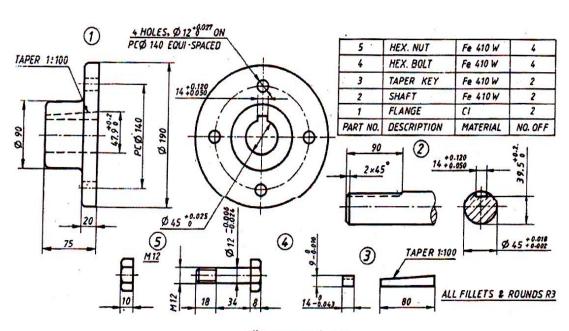
1. Attempt all questions.

2. Make suitable assumptions wherever necessary.

3. Figures to the right indicate full marks.

		A STATE OF THE PROPERTY OF THE	-
Q.1	(a)	Explain types of assembly drawings. Explain sequences of preparing the assembly drawing.	07
	(b)		07
Q.2	(a) (b)	The state of the s	
	(b)		07
Q.3		Draw the Standard Two- Plate Injection Mould and prepare the Bill of Material.	14
		OR	
Q.3		Fig I shows the different parts of a screw jack. Draw the elevation in half section of the assembly.	14
Q.4	(a)	Draw the symbols for the following weld joints: 1) Double V butt weld 2) Fillet Weld 3) Single bevel butt weld 4) Edge weld 5) Spot weld 6) Double U butt weld 7) Square butt weld	07
	(b)	Sketch the symbol for the following characteristics used for form tolerances.	07
		1) Symmetry 2) Straightness 3) Perpendicularity. 4) Circularity 5) Co-axiality 6) Parallelism. 7) Flatness. OR	
Q.4	(a)	What do you understand by Allowances? Write a short note on Basic Hole System and Basic Shaft System.	08
	(b)	Explain the following terms:	06
	. ,	1) Basic size and Nominal size 2) Deviation and Tolerance	
Q.5		What is Coupling? Details of a flanged coupling (Unprotected type) are shown in Fig. II. Draw to 1:1 scale the front view with top half in section, showing all the parts assembled, with one of the shaft being projected by a distance of 5 mm into the bore of the other flange.	
Q.5		What is Cotter joint? Prepare a dimensioned sketch, in two views, of a Cotter joint for two 40 mm diameter rods.	14





All Dimensions in mm

Details of Flanged Coupling — Unprotected Type

Fig II