Seat N	No.:	Enrolment No	Enrolment No	
GUJARAT TECHNOLOGICAL UNIVERSITY DIPLOMA ENGG III rd SEMESTER-EXAMINATION - MAY/JUNE- 28/2 Subject code: 335501 Date: 28/2 Subject Name: Mechanical Technology Time: 02:30 pm - 05:00 pm Total M		05/2012		
	ruction 1. Att 2. Ma 3. Fig			
Q.1	(a) (b)	Define the term 'machine tool' and give its classification. Explain with neat sketch 1. Chip formation 2. Mechanism of cutting	07 07	
Q.2	(a) (b)	Explain Need of attitude, knowledge & skill required for shop floor supervisor in machine tool industries Explain any FIVE operations performed on a lathe with neat sketch	07 07	
Q.3	(b) (a) (b)	OR Draw neat sketch and write specification of center lathe Describe the lathe accessories and attachment with neat sketch. Find the angle at which the compound rest of a lathe should Be set to turn taper on work piece having length of 50 MM, D = 50 mm and d = 40 mm	07 07 07	
Q.3	(a) (b)	OR Draw three views of single point cutting tool having signature 10-20-7-6-8-15-0.8 and show different angle. Draw neat sketch of portable drilling machine and explain its use in fabrication industries	07 07	
Q.4	(a) (b)	Draw neat sketch of shaping machine and label its parts Write brief note milling machine and its types OR	07 07	
Q. 4	(a)	Explain Truing, Dressing ,Loading, Glazing and Gumming of	07	

Q.5

(a) Describe safety rules observed in 'FOUNDRY'

(b) Explain different type of core with neat sketch

OR

Q.5

(a) Explain with neat sketch difference between forging, casting, machining

O7

Explain specification system of grinding wheel as per BIS

grinding wheel.

Explain Forging process.

(b)

(b)

07

07