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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III (NEW)• EXAMINATION – SUMMER 2015

Subject Code:2132501 Date:29/05/2015 **Subject Name: Machining Processes** 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. **Q.1** Explain the basic concept of machining. Classify the machine tools. 07 (a) Draw simple sketch of engine lathe. List main parts and state functions of each **(b)** 07 part. **Q.2** Explain various work holding devices of lathe machine. 07 (a) **(b)** Explain with neat sketch various types of chucks used on lathe machine. 07 OR What are the difference between Engine lathe and Turret lathe? **07 (b) Q.3** (a) How lathe machine is specified. Explain in details. Discuss the alignment test 07 of the lathe machine. Sketch the twist drill with it's nomenclature. **07 (b)** OR Draw a neat schematic diagram of upright drill machine. Describe deep hole 0.3 07 (a) drilling. Draw neat sketch of radial drilling machine and name its parts, explain its **07 (b)** working. 0.4 Explain in brief the different milling machine attachments. 07 (a) Enlist different types of milling cutters. Explain T- Slot milling with neat sketch. **(b)** 07 0.4 Differentiate between shaper and Planer. 07 (a) Explain with neat sketch working of crank and slotted link quick return **(b)** 07 mechanism of shaper. Discus various broaching methods in details with its applications. **Q.5** 07 (a) How grinding wheel is specified? Explain in details. **(b)** 07 OR Explain glazing, loading and mounting of grinding wheel. 0.5 **07** (a) **(b)** Explain the nomenclature of pull type broach. 07
