Seat No.: _____

Subject Code: 133404 Date: 04/06 Subject Name: BASIC MFG PROCESSES Time: 02.30pm-05.00pm Total Mark Instructions: 1. Attempt all questions. Total Mark Instructions: 3. Figures to the right indicate full marks. Total Mark Q.1 (a) Explain the Primary and Auxiliary motions with reference to machine tools. (b) Give the classification of machining processes Q.2 (a) Explain the functions of the basic parts of the lathe with neat sketches. (b) Explain various work holding devices of lathe machine.	
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OR	07 07
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(b) Show various tools positions for manufacturing threaded bolt on turret lathe.	07
Q.3 (a) How lathe machine is specified. Explain in details. Discuss the alignment test of the lathe machine.	07
(b) Differentiate between shaper and Planer.	07
OR	
 Q.3 (a) Explain plain and universal milling. (b) Derive the Formula for Machining Time calculation for Milling. 	07 07
Q.4 (a) Explain Upmilling and Downmilling. List down the advantages of Upmilling.(b) What is indexing? Explain plain indexing method.	07 07
OR	
Q.4 (a) Give the classification of drilling machine machines. State the applications of each type of drilling machine.	07
(b) Explain construction and working of centre less grinding machine.	07
Q.5 (a) Describe Radial Drilling machine with its main parts and Explain its	07
applications.(b) Describe drilling, counter boring, countersinking, spot facing operations.	07
OR	
Q.5 (a) Explain following terms	07
(1) Glazing (2) Dressing (3) Truing (4) Mounting of grinding wheel.(b) Explain the Standard Marking System for Grinding Wheels.	07
