18MPT15

# First Semester M.Tech. Degree Examination, Dec.2019/Jan.2020 Theory of Metal Cutting

Note: Answer any FIVE full questions, choosing ONE full question from each module.  Note: Answer any FIVE full questions, choosing ONE full question from each module.  Note: Answer any FIVE full questions, choosing ONE full question from each module.  Note: Answer any FIVE full questions, choosing ONE full question from each module.  Note: Answer any FIVE full questions, choosing ONE full question from each module.  Note: Answer any FIVE full questions, choosing ONE full question from each module.  Note: Answer any FIVE full questions, choosing ONE full question from each module.  OR  Illustrate the American System of specifying tool angles.  Note: Answer any FIVE full questions, choosing ONE full question from each module.  OR  Illustrate the following turbing tool designs.  OR  Illustrate the composite cutting force savele drawn for orthogonal cutting operation.  (10 Marks)  (10 Marks)  OR  Discuss the Lee and Shaffer slip-line model for shear plane engle.  Sketch and explain the hodograph which shows the three velocities of interest in cutting O6 Marks)  Sketch and explain the hodograph which shows the three velocities of interest in cutting O6 Marks)  Discuss the working principle of the following  Hydraulic dynamometer  OR  Discuss the differentificate technique used to measure tool-chip interface temperature, with a neat schequatic diagram.  (14 Marks)  Nodule-4  Illustrate the differentiforms of wear on a cutting tool.	Ti	neory of Metal Cutting	
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(10 Marks)	(b!) Discuss the variation of cr	rater depth with time for different cutting	Speeds (10 Marks)

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**Didier Musso** 

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