

**End Semester Examinations - 2015-16 Even Semester - May 2016**

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**14ME2005 Machining Processes**

**Set A**

**Time : 3 hrs**  
**Total Marks: 100**

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1. In orthogonal cutting, if the feed is 1.25mm/rev and chip thickness after cutting is 2mm. shear strength is  $6000\text{kg/cm}^2$ . Width of cut is 10mm with  $10^\circ$  rake angle, cutting speed and co-efficient of friction are 30m/min as well as 0.9. Determine (a) Chip thickness ratio (b) Shear angle (c) friction angle (d) shearing force
  - OR**
  2. Draw a comparison table for different types of chip with neat sketch.
  3. With the required sketch explain the operations that can be performed on a lathe.
  - OR**
  4. Explain the nomenclature of single point cutting tool with neat sketch.
  5. Draw and Explain the construction and working of Shaper.
  - OR**
  6. Discuss the various types of Milling cutters with Suitable Sketch.
  7. What are all the Hole making operations? Explain it with suitable sketch
  - OR**
  8. Explain the Types of Grinding operations.
  9. What is EDM? Explain its construction and working with suitable sketch **(Compulsory)**
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**Wishing you All the Best**

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