**BTAMO10**

**Sixth Semester B. Tech Automobile Engineering**

**Examination Aug/Sep-2015**

**Metal Cutting & Tool design**

**Time:-3Hours Max. Marks:-75**

**SECTION-A**

**Answer any five questions. (5\*5)**

1. Define Feed Rate. Enlist the factors on which it is mainly dependent.
2. What do you mean by Shearing? What is its basic principle?
3. Write a short note on Compound die design.
4. Clarify the Roll forging process.
5. Define Bench Shear.
6. What do you understand by ‘Bending’? Briefly write about its process.
7. Enlist the advantages & disadvantages of ‘Forging’.

**SECTION-B**

**Answer any two questions. (10\*2)**

1. Discuss different types of ‘Bending’.
2. Elaborate Fine blanking with its advantages & disadvantages.
3. What are the Drilling bushes? Discuss its different types.

**SECTION-C**

**Answer any two questions. (15\*2)**

1. Write in detail about Hot & cold rolling.
2. What are the main components for Die Toolsets? Discuss its major operations.
3. Elaborate the following:
   1. Press Forging
   2. Upset Forging
   3. Automatic Forging