

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE – RAIGAD – 402 103
Winter Semester Examination – Dec – 2018**

Branch: M. Tech. (Mechanical Engineering)

Semester: I

Subject with Subject Code: -Machining and Forming Processes (MME1105/MMECH12)

Marks: 60

Date: 27/12/2018

Time: 3 Hrs.

Instructions to the Students

1. Each question carries 12 marks.
2. Attempt any five questions of the following.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.

(Marks)

- Q.1. (a). Explain Concept of Generatrix & Directrix and Tool – work motions (06)**
(b) Enlist various operations can perform by multipoint cutting tool , Explain anyone machine having multipoint cutting tool with its applications. (06)
- Q.2. (a). Explain various forces acting on metal cutting during chip formation (06)**
(b). Explain cutting tool failure with its type and which are the variables affecting on tool life (06)
- Q.3. (a). Explain the effects of grinding conditions on wheel behavior. (06)**
(b). Write short note on any two (06)
i) Ultrasonic Machining
ii) Abrasive-Jet Machining
iii) Electrochemical Machining
- Q.4. (a). Explain Forces and geometrical relationships in rolling. (06)**
(b). Explain extrusion process. Write the defects in extrusion & how they can recover. (06)
- Q.5. (a). Explain Forging defects. (06)**
(b). Write calculations of forging loads in Closed die forging. (06)
- Q.6. Write short note on (12)**
(a) Blanking, piercing, and punching.
(b) Drawing processes in metal forming.