# MGM’S College of Engineering, NANDED.

**Department of Mechanical Engineering**

**QUESTION BANK FOR TEST-** **I**

ACADEMIC YEAR 2013-14, SEM – II

Class: T.E. (Mech.) Subject: Tool Engg. Date:15/02/2014

Duration: 01 Hr. Max. Marks: 20

Q.1 What is Tool signature, explain the advantages of various angles of single point tool.

Q.2 Explain with neat sketch the process of chip formation.

Q.3 Enlist the factors responsible for the formation of a) segment chips b) continuous chips with buildup edge.

Q.4 Write a short note on Tool Life.

Q.5 Enlist the types of tool wear. Explain any three.

Q.6 Enlist the factors affecting a) Tool life b) Machinability.

Q.7 Enlist the purpose of use of Lubricants. Enlist their desired properties.

Q.8 Differentiate between 2D cutting and 3D cutting.

Q.9 Explain with neat sketch merchant circle diagram.

Q.10 Enlist the elements of jigs & Fixtures. Explain the necessity of clamping devices.

Q.11 Explain the advantages of using jigs & fixtures.

Q.12 Enlist & explain the principles of location.

Q.13 What is Redundancy? How to avoid it?

Q.14 Explain with neat sketch types of indexing.

Q.15 Enlist all cylindrical locators. Explain location point with neat sketch.

Q.16 Draw the neat sketches of a) two point clamp b) Latch clamp.

**S.S. Jarikote**

**Subject Incharge**