**BSAM O5**

**Third Semester B. Tech Automobile Engineering**

**Examination Aug/Sep-2015**

**Production Technology**

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

**SECTION-A**

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

1. Define Silica Sand & Binders.
2. What do you mean by Ladles & Crucibles?
3. What is Hot Working operation?
4. Briefly write about ‘Welding Equipments’ & ‘Welding Electrodes’.
5. Clarify the structure of Cupola Furnace.
6. Mention the various forging operations.
7. Define various Welding Joints.

**SECTION-B**

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

1. Discuss the procedure of moulding. Also write the precautions to be taken during its process.
2. Explain TIG (GTAW) welding process. Also write its benefits, limitations & common concerns.
3. Explain the principle of following types of welding:
   1. Linear Vibration Welding
   2. Orbital Friction Welding
   3. Spin Friction Welding

**SECTION-C**

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

1. Draw a labeled diagram of Lathe Machine. Also explain its different parts.
2. Classify Materials. Also discuss why we study materials science & engineering.
3. With the help of a labeled diagram, write a detail note on ‘Grinding Machine’.