

KSV**LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR.**

B.E. 3rd Semester
MID SEMESTER EXAMINATION

Date : 26/08/2014
Subject Code: ME303
Time : 12.00 to 1.30 pm

Branch : Mechanical Engg.
Subject Name : MCP
Max. Marks : 30

Instructions: 1) All questions are **compulsory**.
 2) Figures to the **right** indicate full marks.
 3) Use of scientific calculator is permitted.
 4) Indicate **clearly**, the options you attempt along with its respective question number.
 5) Use the last page of main supplementary for **rough work**.

- Q.1 (a) Define the term pattern. List the various pattern materials. Explain their advantages. [5]
 (b) Classify machine tools in details. [5]
- Q.2 (a) Define following terms [5]
 1. Cope 2. Drag 3. Core 4. chaplet
 (b) What is gating system? State types of gate with its advantages. [5]
- OR**
- Q.2 (a) Explain following lathe operation with sketch [5]
 1. Facing
 2. Grooving
 3. Knurling
 (b) What are the difference between Engine lathe and Turret lathe? [5]
- Q.3 (a) Enumerate various operations carried out on drilling machine. Explain any one with neat sketch. [5]
 (b) Classify boring machine. Explain horizontal boring machine. [5]
- OR**
- Q.3 (a) What do you mean by Jig boring machine? Explain their characteristics features. [5]
 (b) Write short note on different type of chucks used in a lathe. [5]

BEST OF LUCK