

Roll No.

National Institute of Technology Kurukshetra
Mechanical Engineering Department

Class: B. Tech., 1st Semester
 Branches: CS, ECE, IT
 Session: Nov.-Dec. 2017

Subject: **Engineering Practice**
 Code: **MEIR-11**, Marks (50), Time: 3 hrs

Note: Kindly spend 2 minutes on reading this question paper. All questions are compulsory; briefly explain the answers; draw neat and well labeled figures to support the answers.

Q1.	(a) Explain the steps involved in Casting process. Explain the role of riser in Casting process. (b) Explain (i) Ladle (ii) Pattern (iii) Induction Furnace (iv) Riddle (v) Strike-off bar, <i>only by diagrams</i> .	(5+5)
Q2.	(a) Explain arc welding process and types of welding electrodes. (b) Differentiate brazing from welding. Draw the diagram of Oxy-fuel gas welding process.	(5+5)
Q3.	(a) Differentiate between the three jaw and four jaw chuck with the help of diagrams. (b) Draw a well labeled diagram of lathe and explain the following parts of lathe machine (i) cross slide (ii) apron (iii) tool post.	(5+5)
Q4.	(a) Differentiate between soft wood and hard wood. Explain the Kiln seasoning. (b) How mortise gauge is different from marking gauge. Explain wooden jack plane.	(5+5)
Q5.	(a) Draw any three marking and two measuring tools used in fitting shop. (b) Explain tapping process and types of taps used for thread making.	(5+5)