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(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF MECHANICAL ENGINEERING

CONTINUOUS ASSESSMENT TEST – I – WINTER SEMESTER 2019-2020

Programme Name & Branch: B.Tech & Mechanical Engineering

Course Name Code: MEE 1007

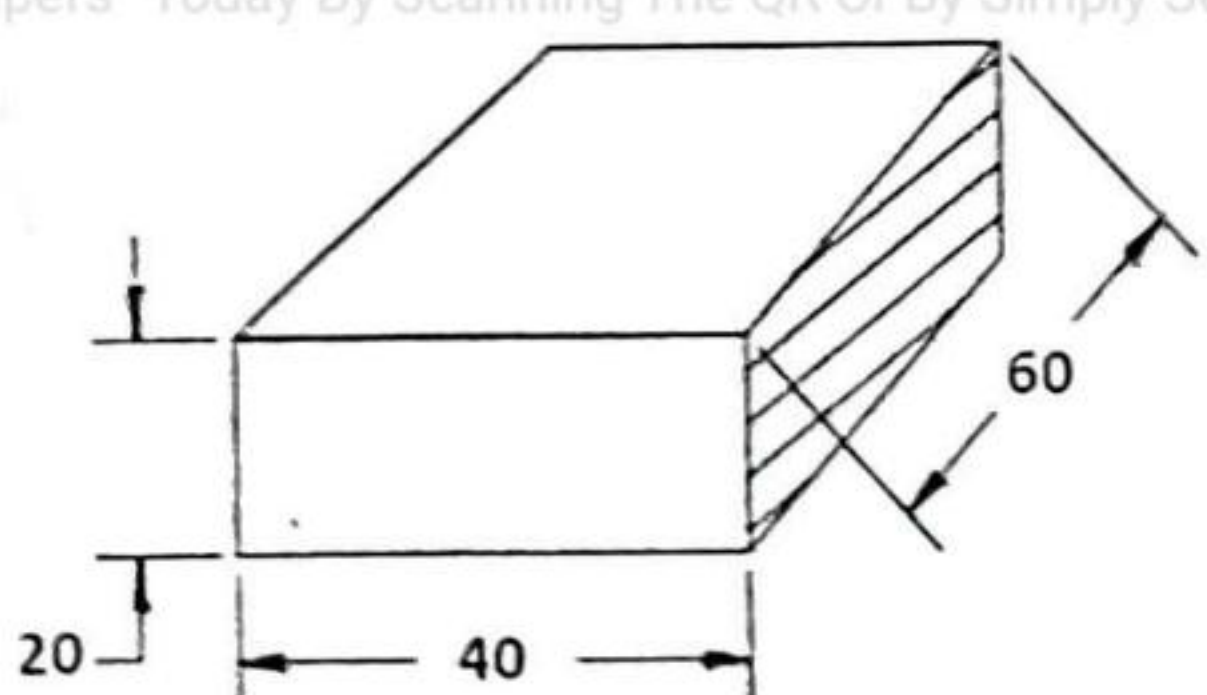
Course Name: Manufacturing Processes

Faculty Name(s): Dr. Anoj Giri, Dr. Sundaramali G, Dr. Jambheswar Sahu

Class Number(s): VL2019205002392, 2401, 2420

Exam Duration: 90 mins

Maximum Marks: 50

Sl.No.	Question	Course Outcome (CO)
1.	Explain the procedure for sand casting with neat diagram. (10 marks)	1
2.	<p>(a) Enlist the pattern types. Explain any two of them. (5 marks)</p> <p>(b) A job as shown in Figure (dimensions in mm), is to be made from steel by casting process. The mold for this job is made from wooden pattern. Determine the dimensions of the wooden pattern assuming machining allowance of 2 mm on each side, shaking allowance of 1 mm on length and width, shrinkage allowance of 4%. (10 marks)</p> 	1
3	Explain any five casting defects with their causes and remedies. (10 marks) <i>Blow hole, flash, fusion, runout, hot spot, surface</i>	1
4.	List of welding classification. Explain the TIG welding process with neat sketch. (15 marks).	2