



SCAN ME

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. Jambeswar Sahu, Dr. Senthil Kumaran S

Class Number(s): VL2019205002393, 2419, 2574

Exam Duration: 90 mins

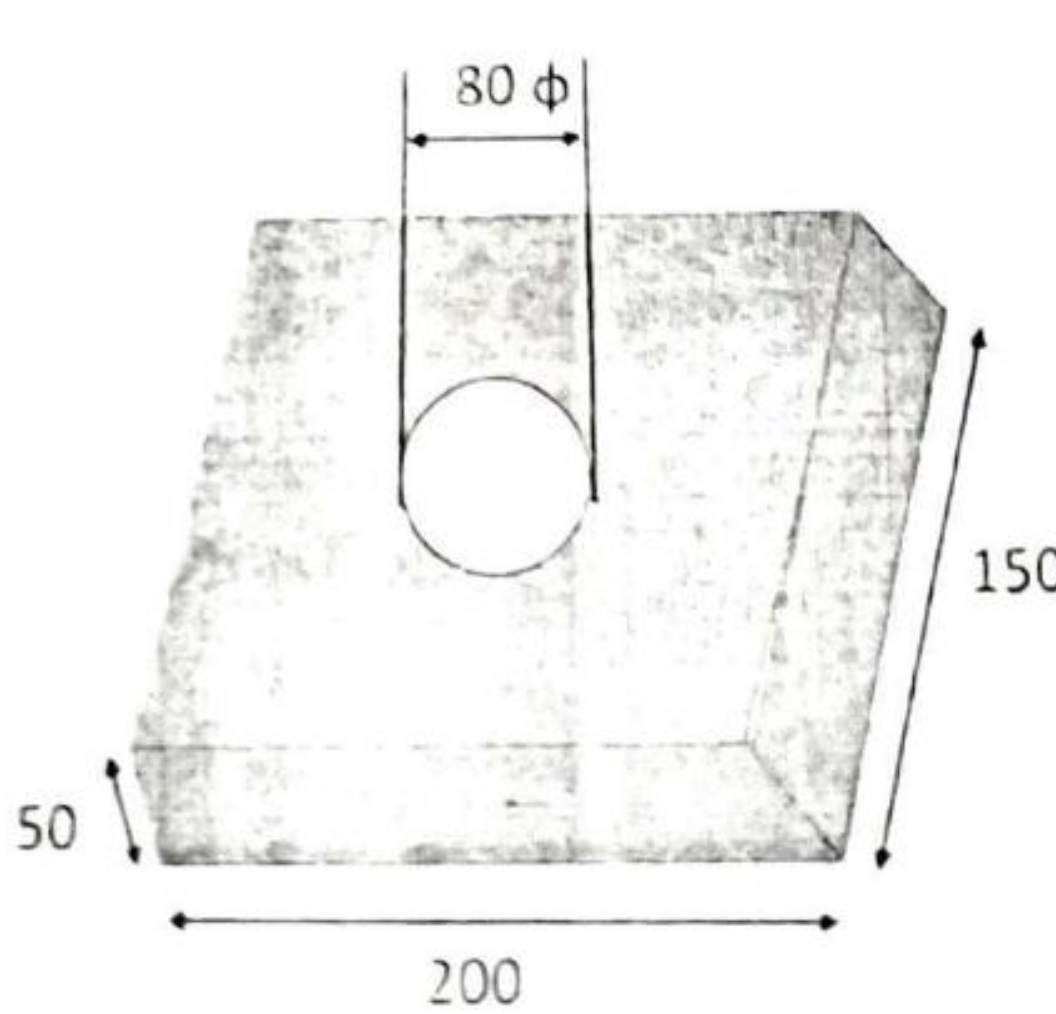
Maximum Marks: 50

General instruction(s):

join VIT Question Papers on Telegram

Draw neat sketch where ever necessary

Any other specific instruction

Sl.No.	Question	Course Outcome (CO)
1.	Enlighten the different parts of a sand mould with a neat sketch and explain the sand casting process. (10 marks)	1
2.	<p>A cast product, as shown in Figure (dimensions in mm), is to be made from steel using a wooden pattern. Determine the dimensions of the wooden pattern and core, assuming shrinkage allowance of 21 mm/m, machining allowance of 1 mm on all surface, draft allowance of 1° and shaking allowance of 1 mm on length and width.</p>  <p>(15 marks)</p>	1
3.	What are the different types of Arc welding and solid-state welding technique? Describe the TIG welding process with a neat sketch. (15 marks).	2
4.	Write short notes on casting defects and inspection of NDT methods. (10 marks)	1