

B.Tech 6th Semester, MID Term Examination, 2022
NAME OF SUBJECT: MANUFACTURING PROCESS II
Paper code: UPE06B18

Full Marks: 30

Time: 1 hours

The figures in the margin indicate full marks for the questions. Answer any three questions.

[1]	Explain Tresca's maximum shear stress criterion and Von Mises' maximum distortion energy criterion	10
[2]	Explain about cold and hot metal forming process	10
[3]	Explain in details about forging performing operation	10
[4]	Derive an expression for total forging force for flat strip.	10
[5]	A strip of lead with initial dimensions 24 mm x 24 mm x 150 mm is forged between two flat dies to a final size of 8 mm x 72 mm x 150 mm. If the coefficient of friction between the job and the dies is 0.15, determine the maximum forging force. The average yield stress of lead in tension is 7 N/mm ² .	10

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