

## INTERNATIONAL CENTRE FOR APPLIED SCIENCES MAHE, MANIPAL B.Sc. (Applied Sciences) in Engg. End – Semester Theory Examinations – NOV 2021 III SEMESTER - MANUFACTURING PROCESS ENGINEERING (IME 232)

T	ime: 3 Hours	Date: 22 NOV 2021	Max. Marks: 50	
	<ul> <li>✓ Answer ALL questions.</li> <li>✓ Missing data, if any, may be suitably assumed.</li> </ul>			
1.A	With a neat sketch explain th disadvantages.	e Permanent mould casting, its adv	vantages and	5
1.B	Explain the Properties, advantages and disadvantages of hot working of metals.			5
2.A	Classify the drilling machines and explain any two types of drilling operations.			5
2.B	Why milling attachments are required, explain any one method.			5
3.A	List the milling machine operations and explain any one			5
3.B	Explain the given grinding wheel designation W-B-32-L-4-A-BE.			5
<b>4.</b> A	Mention the different types of bonding materials used in grinding wheels and explain Vitrified bond.			5
<b>4.B</b>	Why back gear mechanism is used in lathe, explain with a neat sketch.		sketch.	5
5.A	List and explain the shaper o	perations.		5
5.B	Draw the nomenclature of a t	twist drill bit.		5

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