MID-TERM EXAMINATION
(Course Name : B. Tech. MAE/DMAM) (Semester : 4)
(March, 2024) OFF LINE mode

Subject Code: BMA 202	Subject: Production Tech -II	
Time : 1 ½ Hours		Maximum Marks : 30

Note: Q. 1 is compulsory.

Support your answers with a labeled Diagram

Q1			(2.5*4)
	(a)Define Feed, Depth of cut and Cutting Speed for a Turning Operation?	UNIT-1	
	(b) How Reaming can be performed on a lathe Machine? (Use Diagram)	UNIT-1	
	(c) Why return stroke in a shaper is quick in comparison to forward stroke? How speed difference is achieved?	UNIT-2	
	(d) Name any six cutting tool materials?	UNIT-2	

Q2	(Attempt any Two Parts) UNIT-1	(5,5)
	(a) Explain a Lathe machine and its parts? (use Diagram)	
	(b) Explain various operations that can be performed on lathe machine (Use Diagram)	
	(c) A hollow w/p of 200 mm outside dia and 350 mm length is held on a mandrel b/w centres and turned all over in 4 passes .If the approach length = 10 mm, over travel = 10 mm ,average feed = 1 mm/rev ,cutting speed = 35 m/min ,calculate Machining Time.	

Q3	(Attempt any Two Parts) UNIT-2	(5,5)
	(a) Differentiate between CNC Lathe and Conventional Lathe	
	(b) Differentiate between Shaper/Sloter and Planer	
	(c) A CJ plate measuring 400mm x 150 mm x 30 mm is to be rough shaped along its length .calculate machining time taking approach = 25 mm ,over travel = 5 mm , cutting speed = 10 m/min ,Return speed = 17 m /min . Allowance on either side of the plate width = 5 mm and Feed per cycle = 1 mm.	

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