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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

August 2024 Semester End Main Examinations

Programme: B.E.

Semester: IV

Branch: Mechanical Engineering

Duration: 3 hrs.

Course Code: 22ME4PCMFT

Max Marks: 100

Course: Manufacturing Technology

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

UNIT - I			CO	PO	Marks
1	a)	Explain the nomenclature of a single point cutting tool with a sketch.	CO2	PO1	10
	b)	Determine percentage change in cutting speed required to give 50% reduction in tool life (i.e., to reduce tool life to 1/5 of its previous value). Take $n = 0.2$.	CO2	PO1	10
OR					
2	a)	List any ten properties of cutting fluids	CO1	PO1	10
	b)	Enumerate the difference between Shaper and a Planer	CO1	PO1	10
UNIT - II					
3	a)	Explain the parts of a radial drilling machine with a sketch.	CO1	PO1	10
	b)	Explain the parts of a Column and Knee milling machine with a sketch	CO2	PO1	10
UNIT - III					
4	a)	What is Hot and Cold working?	CO2	PO2	5
	b)	What is Forging and list some of the defects in forged parts	CO2	PO1	5
	c)	What are the different forging processes? Explain	CO2	PO2	10
OR					
5	a)	List and explain types of Roll mill configurations	CO1	PO2	12
	b)	Explain the applications of rolling	CO1	PO2	
UNIT - IV					
6	a)	What is Extrusion Process and types of extrusion	CO2	PO1	10
	b)	Explain Electro hydraulic forming and Electromagnetic forming	CO2	PO1	10
OR					
7	a)	What is Blanking, Punching, piercing and Nibbling ?	CO2	PO2	08
	b)	Explain the types of drill jigs	CO1	PO1	12

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.
