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## Total Pages: 2 Roll No. ..... 8754 BT-7/M-13 ADVANCED MANUFACTURING TECHNOLOGY Paper-ME-419-E Option-I Maximum Marks: 100 Time Allowed: 3 Hours Note: Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks. UNIT-I 1. Describe various surface cleaning and surface treatment methods used in Industries.

What are different types of composite materials? Briefly enumerate the properties and applications

UNIT-II

various additions to polymers.

process used in plastic processing.

(a) What is meant by polymerization? Describe

(b) Describe with neat sketch the Transfer moulding

Describe following methods of thread manufacturing:

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of each type.

(a) Thread Rolling.

(b) Thread Milling.

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## UNIT-III

5.	(a)	processes giving advantages and limitations of	n of 0
	(b)	and Friction on matel 6	e 0
6.	Explain the following processes in detail:		
	(a)	Rolling	5
	(b)	Power rolling	5 .
	(c)	Drawing	5
	(d)	Die forging.	5
UNIT-IV			
7.	(a)	Discuss the common forms in which die casting dies are designed.	_
	(b)	Enumerate the specific features required to be embodied in a successful design of die casting dies.	3
8.	Also	at are the important elements of Cost estimation? enumerate the major steps and factors in cost mation.	t

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