



ADAMAS UNIVERSITY
END-SEMESTER EXAMINATION : MAY 2021
(Academic Session: 2020 – 21)

Name of the Program:	B.Tech	Semester:	IV
Paper Title :	MANUFACTURING TECHNOLOGY-I	Paper Code:	EME42114
Maximum Marks :	40	Time duration:	3
Total No of questions:	08	Total No of Pages:	01
<i>(Any other information for the student may be mentioned here)</i>			

Answer all the Groups

Group A

Answer all the questions of the following

$5 \times 1 = 5$

1. a) What is the role of fluxes in welding?
b) List any two advantages of Cold Working over Hot Working of Metals.
c) What are hot spots and hot tears?
d) With neat sketches represent Upsetting and Bending Operations
e) Name the different types of Rolling Mills.

GROUP –B

Answer *any three* of the following

$3 \times 5 = 15$

2. With neat sketches explain forward and backward extrusion processes.
3. Explain the principle of electric arc welding process with a neat diagram.
4. Discuss how the tubes for shaving creams or toothpaste is manufactured.
5. Define Roll Pass Design and state the calculations required.

GROUP –C

Answer *any two* of the following

$2 \times 10 = 20$

1. a) Discuss the steps involved in Casting Process [4]
b) What are the desirable properties of moulding sand for sand casting? Briefly explain each one. [6]
 2. a) Using neat sketches explain briefly the process of wire-drawing [5]
b) Differentiate between hot working and cold working. [5]
 3. Write short notes on
a. Defects in Casting Processes [5]
b. Defects in forging processes [5]
-