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	AG.	No: 136FB AWAHARLAL NEHRU TECHNOLOGICAL UN B. Tech III Year II Semester Examinations, Nov FABRICATION PROCESS (Common to CE, EEE, AE) Answer any five question All questions carry equal ma	IVERSITY HYDERABA ember/December - 2020 SES Max.: Ma	AG	A
	(a) (b) (2.a)	Describe the difference between a runner and a gate. With suitable sketches explain centrifugal casting. Why is it important to provide a means of venting gase Explain casting defects.	ses from the mold cavity?	[5+10] [5+10]	A
	3.a) What is the purpose of flux? Why is it not needed in gas tungsten-arc welding?  Explain the basic principles of arc-welding processes.  [5+10]  What is the principle of gas welding? Also, explain about various types of flames in gas welding.				Δ
	5. With suitable sketches explain the difference between hot working and cold working process. Also mention the advantages and disadvantages of each process. [15]				
	$\Delta (-$	An annealed copper strip 228 mm wide and 25 mm thick is rolled to a thickness of 20 mm in one pass. The roll radius is 300 mm, and the rolls rotate at 100 rpm. Calculate the roll force and the power required in this operation.			
	7. Explain the following with neat sketches: a) Forward extrusion b) Backward extrusion. [7+8]				
C		With suitable sketches explain various forging operat	ions. AG		Δ
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