R16

Code No: 134BK

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, April - 2018 MANUFACTURING PROCESS

Time:	(Mechanical Engineering) Max. Max. Max. Max. Max. Max. Max. Max.	rks: 75
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part B consists of 5 Units. Answer any one full question from each unit. Each carries 10 marks and may have a, b, c as sub questions. PART- A (25)	
1.a) b) c) d) e) f) mi	What is the difference between pattern and casting? What are the advantages of casting process and mention its applications. What is the difference between DC and AC arc welding? What is filler metal? Explain its importance in welding. How is brazing different from welding.	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3]
٠	PART-B (50)	Marks)
2.a)	Differentiate between pressurized and unpressurised gating systems with reference applications.	ce to the
b)	What do you understand by centrifugal casting? How are the centrifugal casting a classified?	methods [5+5]
3.a)	What purpose is served by the risers in sand casting? Explain the principles of drisers.	
b)	What are the advantages, limitation and applications of investment casting?	[5+5]
4.a) b)	Describe the oxy-acetylene gas welding technique and give the applications. Explain the resistance welding process giving the equipment, parameters control its advantages. OR	lled and [5+5]
5.a)	What are the kinds of joints that are normally employed for welding processe their sketches.	s? Give
b)	Explain submerged arc welding process and its applications.	[5+5]

6.a) b) 7.a) b)	Write a show	rt note on laser tion welding? V	beam welding, de OR What are its applied tects and destructive	etailing the appl cations?		[5+5] elds. [5+5]
8.a) b) 9.a)	process? Explain abo Briefly expl applications	out hot spinning lain various me	and cold spinnin OR	g applications. r breakdown pa	ompared with cold seems of see	[5+5]
10.a) b) 11.a) b)	Differentiat Differentiat	e between roll f	and backward extrogring and rotary OR and cold extrusion hammers. What	forging. n processes.	ges of cold forging?	[5+5] [5+5]
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