BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANCI		MESTER : III SSION : MO/2022	
TIME:	SUBJECT: PE213 MANUFACTURING PROCESSES 3:00 Hours FULL MA	ARKS: 50	
 INSTRUCTIONS: The question paper contains 5 questions each of 10 marks and total 50 marks. Attempt all questions. The missing data, if any, may be assumed suitably. Before attempting the question paper, be sure that you have got the correct question paper. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 			
Q.1(a) Q.1(b)		[2] CO3,L2 [3] CO1,L4	
Q.1(c)	Which casting process is suitable to manufacture similar type small objects in numbers like orthopedic implants? Mention its steps.	[5] CO2,L5	
Q.2(a)	Name at least five different metal cutting operations in which a single point cutting tool is used.	[2] CO1,L1	
Q.2(b) Q.2(c)	Explain the process of cutting tool failure.	[3] CO1,L2 [5] CO4,L3	
Q.3(a) Q.3(b) Q.3(c)	How to specify a grinding wheel?	[2] CO1,L1 [3] CO1,L2 [5] CO1,L2	
Q.4(a) Q.4(b)		[2] CO3,L2 [3] CO4,L3	
Q.4(c)		[5] CO1,L1	
Q.5(a) Q.5(b) Q.5(c)	Differentiate between TIG and MIG welding.	[2] CO1,L1 [3] CO3,L4 [5] CO1,L3	

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