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PTO

M. Tech. (ME) 2nd Semester (Manufacturing & Automation) Examination, May-2015 MECHANICAL DESIGN-I Paper-906

Time	allowed: 3 hours]	[Maximum marks: 100
Note	: All questions carry equestions.	equal marks. Attempt any five
1.	Discuss the concept of	brain storming in context to
	mechanical design.	20
2.	Explain the Quality Fun	ction Development. 20
3.	List and explain the med	chanical and thermal properties
	of the engg. materials.	20
4.	Explain the design for a	ssembly concept with suitable
	example.	20
5.	What is the production techniques and write its types.	
	Write down design cons	sideration for the casting. 20
6.	What is surface heat treatment and explain the different	
	types of surface treat	ment methods with suitable
	diagram.	20
7	What are the design co	nsideration for manufacturing

of cast iron component?

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8. Write short notes on

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- (a) Metal forming
- (b) Surface treatment
- (c) Metal bonding.