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22233

M. Tech 2nd Sem. (Mechanical Engg.) (Machine Design) Examination – May, 2018

PRINCIPLES OF MACHINE DESIGN

Paper : M-806-A

Time : Three Hours]

[Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt any five questions. Each question carry equal marks.

- **1.** Explain the new product planning and development process. What are the characteristics of a good learner?
- 2. Describe the basic procedure of machine design.Design consideration for costing and forging.20
- 3. List the factors that are important in developing a new technologically oriented product.20

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4.	Explain classification of Machine Design and General			
	Cor	nsiderations in Machine Design.	20	
5.		re description of design specification and activit		
	in F	Product Planning and development.	20	
6.	Exp	plain :	20	
	(a)	Stress concentration		
	(b)	Factor of safety for fatigue loading		
	(c)	Endurance limit		
	(d)	Notch sensitivity		
7.	Cla	ssification of engineering materials and selection	of	

8. What do you understand by invention and classified its categories in detail.

20

materials for engineering purposes.

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