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Rol	l No.		Total No. of Pages : 01	
Tot	al No	o. of Questions: 08		
		M.Tech (ME) (2017 Batch) (Sem MAINTENANCE AND RELIABILITY El Subject Code : MTME-211 Paper ID : [74987]	· •	
Tim	e:3	B Hrs.	Max. Marks: 100	
1. 2.	Atte	TIONS TO CANDIDATES: empt any FIVE questions. h question carries TWENTY marks.		
1.	a)	What is the objective of Maintenance Engineering?	(10)	
	b)	How do you classify various types of Maintenance?	(10)	
2.	a)	How do you differentiate between Preventive and Proac	etive Maintenance? (10)	
	b)	What are the functions covered in Maintenance planning	g? (10)	
3.	3. a) What is objective of Reliability centred maintenance? How is it implemented?		Iow is it implemented? (10)	
	b)	Why do you need to operate/prepare equipment history analysis?	y? How does it help in failure (10)	
4.	a)	What are the various Hazard factors in safe plant operat	ion? (10)	
	b)	How the hazard can be minimized by effective Houseke	eeping? Explain. (10)	
5.	a) What are the different Reliability Structure and design configurations?		configurations? (10)	
	b)	What is the objective of Root Cause Analysis? How it is	s implemented? (10)	
6.	De	evelop a fault Tree Analysis diagram for four :		
	a)	Wheeler Hydraulic Brake not operating.	(10)	
	b)	What is a constant failure rate model? Which distribut is the applicability of such distributions?	ion uses this parameter? What (10)	
7.	a)	What is a bath tub curve? Distinguish the various phase	s in them. (10)	
	b)	How is conditional Reliability different from instant F for equipment useful size.	Reliability? Give its advantage (10)	
8.	Wr	Write short notes on the following:		
	a)]	Design for Maintainability		
	b) !	FMECA Method Application	(20)	

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