Subje Time	DIPLO ect code ect Nan : 2:30 j uction 1. Att 2. Ma	GUJARAT TECHNOLOGICAL UNIVERSITY DMA ENGG SEMESTER-VI EXAMINATION - OCTOBER 201 e: 366003 Date: 29-10-201 ne: Pavement Design and Evaluation pm – 5:00 pm Total Marks: 7 s: empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.	12
Q.1	(a) (b)	Differentiate between flexible pavement and rigid pavement. Explain stresses due to temperature, stresses due to loading and combined stresses in flexible pavement.	07 07
Q.2			
	(a) (b)	Explain various types of failures in rigid pavement and their causes. Explain in detail the maintenance of rigid pavements. OR	07 07
	(b)	Explain briefly the IRC procedure for design of rigid pavement.	07
Q.3			
	(a)	Write note on ESWL.	07
	(b)	Write note on general failures in flexible pavement. OR	07
Q.3	(a)	What are the properties of subgrade required to study for the pavement design.	07
	(b)	Enumerate the various methods of flexible pavement design. Briefly indicate the basis of design in each case.	07
Q.4			
Q	(a)	What are the various causes of formation of waves and corrugations in flexible pavement? Suggest remedial measures.	07
	(b)	Discuss the effects of repeated applications of loads on pavements. OR	07
Q. 4	(a) (b)	Explain and define critical load position. What are the stresses required to study for rigid pavement design and why?	07 07
Q.5			
4.0	(a)	How runway pavement does differ from highway pavement?	07
	(b)	Write note on ESAL.	07
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Q.5	(a)	Write note on pavement evaluation.	07
	(b)	Discuss the design parameters in pavement design.	07
