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Roll No. Total No. of Pages: 01 Total No. of Questions: 08 M.Tech. (Soil Mechanics & Foundation Engineering) (2013 Batch) (Sem2) DESIGN OF ROAD PAVEMENTS Subject Code: CESE-14 M.Code: 37204		
Tim	e: 3 Hrs. Max. Marks:	100
1. 2.	RUCTIONS TO CANDIDATES: Attempt any FIVE questions in all. Each question carries TWENTY marks.	
Q1.	Draw a sketch of flexible pavements cross-section and show the component Enumerate the functions of each component of the Pavement.	parts. (20)
Q2.	Explain the concept of stabilization of bases for road pavement. Discuss in deta concept of mechanical stabilization.	il the (20)
Q3.	(a) Discuss the various factors affecting the pavement design.	(12)
	(b) Explain the empirical methods of pavement design for flexible pavement.	(8)
Q4.	What is the need and types of joints to be provided in rigid pavements? Explain sketches how these joints are provided. Also give the IRC recommendations for spacing.	
Q5.	(a) What kind of Temperature Stresses are developed in rigid pavements? How magnitude of these stresses determined?	v the (12)
	(b) What is the Modulus of sub grade Reaction? How it is determined in the field?	(8)
Q6.	What is the necessity of providing overlays on the pavements? Give the design meth providing flexible overlay and Rigid Overlay on existing Rigid Pavements.	od of (20)
Q7.	What is the need & significance of evaluation of pavements? Describe the various me for carrying out functional and structural evolution of pavements.	thods (20)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

1 M-37204 (S9)-2267

Q8. Write short notes on:

(b) Soil factor

(a) Road Mechanic & Applications