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BICEE-018

B.Tech. CIVIL ENGINEERING (BTCLEVI)

00004

Term-End Examination

June, 2014

BICEE-018: PAVEMENT EVALUATION

Tin	me : 3 hours Maximum Max	Maximum Marks: 70	
Note: Answer any seven questions. All que equal marks.		stions carry	
1.	What are the various structural and function requirements of flexible and rigid pavements?	al <i>1(</i>	
2.	Discuss any four types of failures of pavement their causes and the required remedial methods	-	
3.	What do you understand by paveme slipperiness and unevenness? What are the causes of these conditions? How are the measured and corrected?	he	
4.	What are the various methods of pavements surface condition evaluation and the applications? Discuss in detail.		
5.	Discuss the role of moisture and pavement laye on structural stability and pavement deterioration.		

6.		ain the applications of any two Destructive tests used for pavement	
	evalu	nation, with their merits and demerits.	0
7 .	Expla	ain in detail the pavement overlays.	0
8.	(a)	Explain Evaluation of Pavement by Specimen Testing.	5
	(b)	Compare Flexible overlays with Rigid overlays.	5
9.	(a)	Explain the effects of climatic variations on pavement design and performance.	5
	(b)	How do we correct the overlay designs for pavement temperature and subgrade moisture variations?	5
10.	Write	e short notes on any ${\it two}$ of the following : $2 \times 5 = 1$	10
	(a)	Use of Geosynthetics in Pavement overlays	
	(b)	Plate load test	
	(c)	Pavement distress	