

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00683

June, 2018

BICEE-018 : PAVEMENT EVALUATION

Time : 3 hours

Maximum Marks : 70

Note : Attempt any **seven** questions. All questions carry equal marks. Use of scientific calculator is allowed.

1. What are the functional and structural requirements of highway pavements ? Explain. 10
2. Discuss any two defects of highway pavements, giving their causes and remedial measures. 10
3. Explain the various parameters that are used for evaluation of pavements. 10
4. Discuss the necessity of an overlay in highway pavements. 10

5. What is straight edge ? Explain its use for pavement evaluation. 10
 6. How are cracks measured in pavements ? Discuss various types of cracks in pavements. 10
 7. Explain a method of measurement of unevenness index with its procedure. 10
 8. What are the factors that affect pavement surface condition ? Discuss their effects in brief. 10
 9. Discuss the effects of traffic on structural stability of a pavement and its deterioration. 10
 10. Write short notes on any **two** of the following : $2 \times 5 = 10$
 - (a) FWD Method
 - (b) BBD Test
 - (c) Application of Geosynthetics
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