

Roll No

CE-6004 (CBGS)

B.E. VI Semester

Examination, November 2019

Choice Based Grading System (CBGS)

Highway Engineering

Time : Three Hours

Maximum Marks : 70

- Note:* i) Attempt any five questions.
ii) All questions carry equal marks.
iii) Assume suitable missing values.

1. a) What are the various surveys to be carried out before planning a highway system for a given area? Explain briefly. 7
b) Explain with sketches the star and grid pattern. 7
2. a) What do you mean by WBM? Discuss its construction steps. 7
b) What are the advantages and disadvantages of rigid pavement? 7
3. a) Discuss the importance of fatigue and reliability. 7
b) What do you mean by channelised and unchannelised intersections? 7
4. Discuss the importance of traffic engineering. Explain the various types of traffic signal with the help of neat sketches. 14

5. Explain different parts of Runway and Taxiway with the help of neat diagram. 14
6. a) Explain Windrose diagrams. 7
b) What are the advantages and disadvantages of a rotary? 7
7. Write short notes on the following. 14
a) PIEV Theory
b) Extra Widening at curves
c) Surface dressing
d) Dowel bars and tie bars
8. Explain the various imaginary surface with the help of neat sketches in details. 14
