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Total No. of Pages : 01

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M.Tech.(Civil Engg.) (Sem.–2) ADVANCED TRAFFIC ENGINEERING Subject Code : MTCE-208 M.Code : 74301 Date of Examination : 15-12-22

Time: 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any FIVE out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. a) Explain traffic capacity, basic capacity, possible capacity and practical capacity.
 - b) Discuss briefly various factors affecting the practical capacity of road.
- 2. Explain camber. What are the objects of camber? Discuss the factors on which amount of camber to be provided depends. Specify the recommended range of camber for different type of pavement surfaces. Also discuss effect of shape of camber and the effects of providing steep cross slope.
- 3. Specify the details of geometric design and standards of hill roads including hair pin bends.
- 4. Explain with the aid of neat sketches the methods of eliminating camber and introduction of superelevation.
- 5. Explain summit and valley curves and various cases when these are formed while two different gradients meet. Discuss requirements of summit curve and its shape. Also explain factors based on which length of valley curve is designed.
- 6. a) Explain grade separated intersections alongwith their advantages and limitations.
 - b) What are the relative advantages and disadvantages of over-pass and under-pass?
- 7. What are the various types of parking facilities designed for traffic needs? Compare kerb parking with off-street parking.
- 8. What are the various types of traffic markings commonly used? What are the uses of each? Explain.

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.