

III B. Tech II Semester Supplementary Examinations, November - 2019
TRANSPORTATION ENGINEERING – II
 (Civil Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answering the question in **Part-A** is compulsory
 3. Answer any **THREE** Questions from **Part-B**

PART –A**(22 Marks)**

- 1 a) What are the different types of Good ballast and enumerate the requirements of Good ballast? [3M]
- b) What is the necessity of widening of gauges on curves? [4M]
- c) What are the functions of turnouts? [3M]
- d) What do you understand by the term taxiway design? [4M]
- e) Mention about special characteristics and requirements of airport drainage. [4M]
- f) What are the requirements of navigational aids? [4M]

PART –B**(48 Marks)**

- 2 a) What is meant by wear of Rails? Enumerate the various types of Rail wear and enlist the methods by which it can be measured. [8M]
- b) What are the different causes of creep? How do you identify creep in the field? [8M]
- 3 a) Explain the difference between cant deficiency and negative super elevation. [8M]
- b) What is a Transition curve, what are the different types and what are the requirements for an ideal transition curve? [8M]
- 4 a) What essential purposes are served by Signalling and Interlocking? What do you understand by route relay interlocking? [8M]
- b) Differentiate with a neat sketch of Diamond and Scissors crossing. [8M]
- 5 a) List out Aircraft characteristics to be considered in planning an airport planning and design. [8M]
- b) What are the basic assumptions made in finalizing runway length? Explain. [8M]
- 6 a) Discuss in detail about the maintenance and rehabilitation of airfield pavements. [8M]
- b) Describe the LCN system of pavement design. [8M]
- 7 a) What are the uses of dry and wet docks? What is the role of ware houses? [8M]
- b) What is Dredging? Classify the different types of dredging works. [8M]
