

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

B. Tech. (Sem. - 6th)
TRANSPORTATION ENGG. - II
SUBJECT CODE : CE - 302
Paper ID : [A0618]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1) **(10 × 2 = 20)**

- a) Distinguish between the different Rail Gauges in India.
- b) Explain coning of wheels.
- c) What are the requirements of a good ballast.
- d) What are the causes of creep of Rails.
- e) What is the principle of interlocking.
- f) Draw windrose Diagram.
- g) Draw the general layout of an airport.
- h) Explain the functions of turnouts.
- i) Write a note on Aircraft hangers.
- j) Explain the term dogspikes.

Section - B

(4 × 5 = 20)

- Q2) Discuss the factors affecting the selection of airport site.
- Q3) Explain the various types of signals used in Railways.
- Q4) What is a crossing. Draw the sketches of various types of crossings on Indian Railways.
- Q5) Discuss the geometric standards of various important components of Airports.
- Q6) Explain the various types of Railway stations.

Section - C

(2 × 10 = 20)

- Q7) Explain the various types of fastenings used on Indian Railways along with sketches.
- Q8) How are runways oriented. What factors mainly govern the orientation of runways.
- Q9) Discuss the latest Techniques for the maintenance of Railway Tracks in India.

