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**School of Engineering**  
**B.TECH Civil Engineering**  
**Semester End Examination - Jun 2024**

**Duration : 180 Minutes**  
**Max Marks : 100**

**Sem VI - G1UA601T - Transportation Engineering II**

General Instructions

*Answer to the specific question asked*

*Draw neat, labelled diagrams wherever necessary*

*Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Recall the term junction station K1 (2)
- 2) Describe the wind generated waves in context of docks and harbour engineering. K2 (4)
- 3) Explain the functions of sleepers in a railway track. K2 (6)
- 4) What is the necessity of welding the rails? Also, discuss the advantages of welding the rails. K3 (9)
- 5) Explain the six groups of the airport markings with the help of neat sketches. K3 (9)
- 6) Calculate the actual length of the runway from the following data: Airport elevation= R.L. 100, Airport reference temperature= 28 °C, Basic length of runway= 600 m, Highest point along the length= R.L. 98.2, Lowest point along the length= R.L. 95.2. K5 (10)
- 7) Describe different systems of aircraft parking with the help of neat sketches. K4 (12)
- 8) Explain different factors which need to be considered while selecting the track alignment. K5 (15)
- 9) Explain in detail the procedure adopted to construct the Type-II wind rose diagram. K5 (15)
- 10) Discuss the factors affecting the site selection for railway stations K6 (18)