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Total number of page

Total number of question

B.Tech. || Civil Engg. || 6<sup>th</sup> Semester

Transportation Engg.-II

Subject Code: BTEC-604A

Paper ID:

Time allowed: 3 Hrs

Max Marks: 6

Important Instructions:

- All questions are compulsory
- Assume any missing data

**PART A (2×10)**

- Q. 1. a. List the corrections applied to Runway Length.  
b. What are the causes of creep?  
c. What is the necessity of bearing plates?  
d. What are the different types of fish plates in use?  
e. What type of soil is best suited as subgrade in Railway track?  
f. Write the objects of Level Crossing.  
g. Why Rails are bent on sharp curves.  
h. Enumerate the objects of signaling.  
i. What is a wind rose diagram.  
j. What is IFR.

**PART B (8×5)**

- Q. 2. Why Grade Compensation is required on Railways.

or

What are the requirements of an ideal permanent way

- Q. 3. Draw a neat diagram of simple left-hand turn out and show its various component parts.

or

Explain the theory of coning of wheels

- Q. 4. Write an explanatory note on Track Circuiting.

or

Give the advantages of prestressed concrete sleeper over R.C.C sleepers.  
Statement

Q. 5 Explain the various factors, which you would keep in view while selecting a suitable site for an airport.

or

What are the characteristics of Maglev Track.

Q. 6 Explain the necessity of airport drainage. What data is collected for design ~~sub-surface~~ system of airport drainage.

or

~~Discuss~~ the various types of signals used on railway track.

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