

## Question bank of Transportation Engg. CE 4<sup>th</sup> Semester

### SECTION-A TWO MARKS QUESTIONS

1. State the role of railways in economic development of the nation.
2. What are the components of permanent way?
3. What do you understand by creep in rails? State any two of its impact.
4. List the different types of airport parking systems.
5. Write different systems of aircraft parking adjacent to terminal building.
6. What are the types of gauge?
7. Give the various functions of rails?
8. What are the types of rail sections?
9. What is mean by welded rail joint?
10. What are the functions of sleepers?
11. Give the various types of ballast?
12. What is the purpose of railway station?
13. What is an Exit Taxiway?
14. Define wind rose diagram.
15. What is an Airport?
16. What is the need for clear zone?
17. Define Airport capacity (runway capacity).
18. Define head wind & cross wind.
19. Enlist the components of an airport.
20. Define mode of air transport.

## **SECTION-B      10 MARKS QUESTIONS**

1. Explain briefly about Rails.
2. What are the functions, requirements and types of ballast?
3. What are the factors which affect the site selection for runway of an airport?
4. Write short note on Coning of wheels and tilting of rails.
5. Explain the types of railway gauges.
6. Explain holding aprons for aircraft parking system.
8. What data are to be collected for an Airport planning?
9. Write short notes on Points and crossings.
10. Explain the requirements and characteristics of good crossings.

## **SECTION-C      10 MARKS QUESTIONS**

1. What are the requirements of an ideal permanent Way? What are the factors that govern the cross section and length of the rail?
2. Explain in detail about rail fastenings and fixtures.
3. Describe the preliminary survey for the alignment of a railway line. Enumerate the data to be collected.
4. What are the different types of gradients in Railways? Discuss the factors governing the gradients.
5. What do you understand by the term airport capacity? What are the factors which affect the airport capacity?
6. Explain briefly about historical development of railways in India?
7. What are the different systems of aircraft parking? Explain the suitability of each system?
8. What are the factors to be considered while preparing airport lighting plan and specifications?
9. Explain the marking of runway.
10. Explain the lightening of runway of an airport.