Reg. No. : | | | | | | | | | | | | |

Question Paper Code: 1035257

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV/ DEC 2024
Fifth Semester
Civil Engineering
U20CE504 –TRANSPORTATION ENGINEERING - II
(Regulation 2020)

Time: Three Hours Maximum: 100 Marks

Answer ALL questions

PART – A (10 x 2 = 20 Marks)

1. What are the functions of sleepers?

2. Label some points on uses of Fish plates.

3. Outline on surface drainage.

4. What is Mono rail?

5. List the components of an airport.

6. Write about the airport parking configuration.

7. List out the purposes of installing visual aids at the airport.

8. What are airport zones? Why are they important?

9. What do you understand about littoral drift?

10. Distinguish between jetty and wharf.

PART – B (5 x 16 = 80 Marks)

11. (a) Build up points on conventional method of surveying in track alignment. (16)

(OR)

(b) Explain in detail about the various types of gradients used in railway track and grade compensation. (16)

12. (a) Summarize how poor soil is being stabilized and explain the methods in detail.(16)

(OR)

(b) Develop points on modern methods of track maintenance. (16)

13. (a) Discuss the advantage, disadvantage of air transportation and list the aircraft characteristics for airport planning. (16)

(OR)

(b) Clarify how the size of an apron is defined. (16)

14. (a) (i) The length of a runway at mean sea level, standard temperature and zero gradients is 1600m. The site has an elevation of 320m, with a reference temperature of 33.6°C. The runway has to be constructed with an effective gradient of 0.25%. Calculate the actual length of the runway at site. (8)
(ii) Analyze the cases usually considered in determining the basic runway length. (8)

(OR)

(b) Develop the various parts of airport lighting, and include simple sketches for each part. (16)

15. (a) Discuss the different kinds of dredging Explain in detail. (16)

(OR)

(b) Explain about the wave action on Coastal Structures and Coastal Protection Works. (16)

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