

1138**Code : 15CE54T**Register
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V Semester Diploma Examination, Nov./Dec.-2018**TRANSPORTATION ENGINEERING****Time : 3 Hours |****| Max. Marks : 100****Note :** Answer any **six** questions from Part – A & **seven** questions from Part – B.**PART – A**

1. List the importance of roads in India. 5
2. Explain the sight distance and mention factors affecting the sight distance. 5
3. Define soil stabilization. Mention the objectives of soil stabilization. 5
4. What are the factors to be considered for selection of site for a bridge ? 5
5. What is a coffer dam ? List its requirements. 5
6. What are the advantages of uniformity of gauges ? 5
7. List the requirements of an ideal rail joint. 5
8. List the objects of signalling. 5
9. Define : 1 × 5 = 5
 - (a) Apron
 - (b) Runway
 - (c) Dock
 - (d) Break water
 - (e) Buoys

10. Draw a neat sketch of cross-section of road in embankment and explain briefly the various cross-sectional elements. 10
 11. Explain the method of construction of Water Bound Macadam (WBM) road with a neat sketch. 10
 12. Give the comparison between flexible pavement and rigid pavement. 10
 13. Explain briefly the sub-structure components of a bridge with a neat sketch. 10
 14. Define bridge bearing. List the different types of bearings and explain briefly Rocker and Roller bearing. 10
 15. Draw a typical cross-section of a permanent way. Discuss the basic functions of various components of railway track. 10
 16. List the duties of Permanent Way Inspector. 10
 17. Mention the different types of yards and explain briefly with a neat sketch marshalling yard. 10
 18. Explain the method of transferring the alignment to inside the tunnel with a neat sketch. 10
 19. Define tunnel lining and list the objects of lining of tunnels. 10
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