

**1138****Code : 15CE54T**Register  
Number

--	--	--	--	--	--	--

**V Semester Diploma Examination, April/May-2018****TRANSPORTATION ENGINEERING****Time : 3 Hours ]****[ Max. Marks : 100**

- Instructions :** (i) Answer any **six** questions from Part – A. Each question carries **5** marks.  
(ii) Answer any **seven** questions from Part – B. Each question carries **10** marks.

**PART – A**

1. What is stopping sight distance ? List the factors on which stopping sight distance governs. **5**
2. Justify the necessity of grade compensation in hilly area. **5**
3. List the requirements of highway drainage. **5**
4. Justify the necessity of road arboriculture. **5**
5. What is economic span of a Bridge ? List the factors which governs the economic span of the bridge. **5**
6. With a neat sketch explain the flat footed rail. **5**
7. Identify the requirements of an ideal fastening. **5**
8. List the necessity of points and crossing. **5**
9. With a neat sketch explain the segmental roof section of the tunnel. **5**

**PART – B**

10. Explain the factors which governs the highway alignment in hilly area. **10**
11. Examine the necessity of extra widening of highway at horizontal curves. **10**
12. List the methods of soil stabilization, explain anyone in detail. **10**
13. Compare rigid pavement with flexible pavement. **10**

- |  |    |
|--|----|
| 14. What is cofferdam ? Justify its necessity in bridge construction.          | 10 |
| 15. What is meant by Creep ? List the causes, effects and preventive measures. | 10 |
| 16. What is the purpose of Marshalling yard ? Explain its features.            | 10 |
| 17. Define Interlocking. Identify it's necessity in railways.                  | 10 |
| 18. List the duties of permanentway inspector.                                 | 10 |
| 19. Define :   | 10 |
| (i) Aerodrome  |    |
| (ii) Apron   |    |
| (iii) Runway   |    |
| (iv) Taxiway   |    |
| (v) Hanger   |    |
| (vi) Dock  |    |
| (vii) Port   |    |
| (viii) Break water   |    |
| (ix) Dredging  |    |
| (x) Light house  |    |