

Total No. of printed pages = 2

CT-501/CT/5th Sem/2016/N

CONSTRUCTION TECHNOLOGY

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Answer any *seven* questions.

1. (a) Explain railway track or permanent way with a neat sketch. 5
- (b) What are the requirements of ideal rail joint? 5
2. (a) What are the advantages of welding of rails? Explain different methods of welding. 5
- (b) What are the merits and demerits of wooden and concrete sleepers? 5

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3. (a) Explain different types of railway ballast. 5
(b) Explain various 20 year road development plans. 5
4. (a) Explain recommendations and implementations of Jayakar committee. 5
(b) Explain the factors controlling highway alignment. 5
5. (a) Draw the cross-section of a road and explain its various components. 5
(b) Give the comparison of Rail transport Vs. Road transport. 5
6. (a) What are the different types of Bridges ? 5
(b) What are the factors to be considered while selecting site for a bridge. 5
7. (a) Explain design and construction of dam. 5
(b) Explain different types of canal lining. 5
8. (a) What are the different types of gradients used in railway track ? 5
(b) What are the different types of rail sections ? Give the comparison between them. 5