

END-SEM EXAM 2024

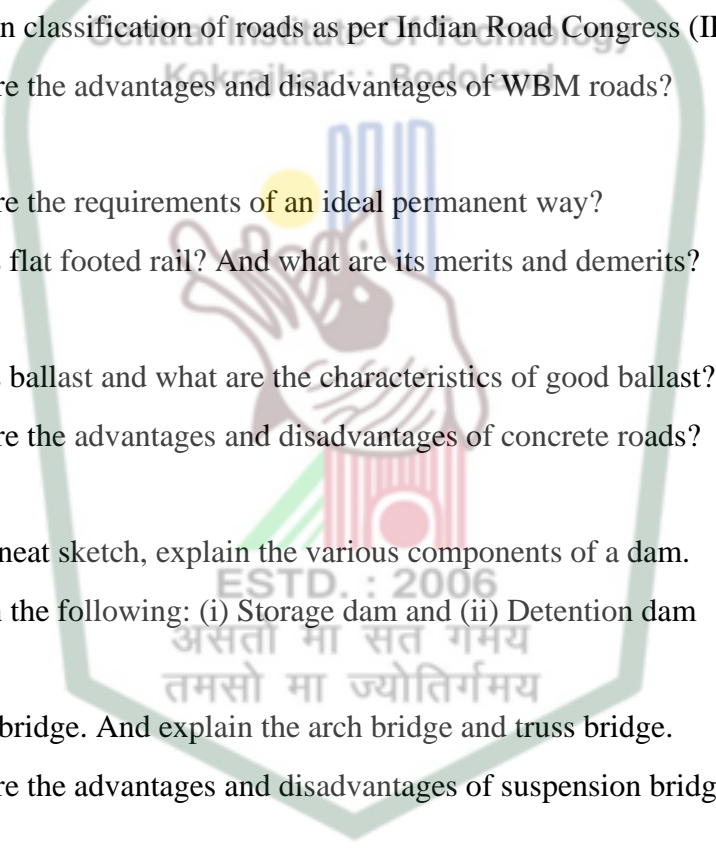
CONSTRUCTION TECHNOLOGY

Full Marks: 100

Time: Three hours

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

Answer any five questions.

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1. (a) Write on classification of roads as per Indian Road Congress (IRC). 12  
(b) What are the advantages and disadvantages of WBM roads? 08
- 2 (a) What are the requirements of an ideal permanent way? 10  
(b) What is flat footed rail? And what are its merits and demerits? 03+07 =10
- 3 (a) What is ballast and what are the characteristics of good ballast? 02+08 = 10  
(b) What are the advantages and disadvantages of concrete roads? 10
- 4 (a) With a neat sketch, explain the various components of a dam. 10  
(b) Explain the following: (i) Storage dam and (ii) Detention dam 05+05 = 10
- 5 (a) Define bridge. And explain the arch bridge and truss bridge. 02+08 = 10  
(b) What are the advantages and disadvantages of suspension bridge? 10
- 6 (a) Define canal and classify canals based on: (i) Source of supply and (ii) Functions. 02+08 = 10  
(b) Explain the following types of culverts: (i) Pipe culverts and (ii) Box culverts. 05+05 = 10