MVCT-104

M. E./M. Tech. (First Semester) EXAMINATION, Feb./March, 2009

(Construction Technology & Management)

CONSTRUCTION TECHNOLOGY

(MVCT-104)

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 40

Note: Attempt any five questions. All questions carry equal

- 1. (a) Describe in brief the consumption procedure for Bituminous areas Concrete Road as per LIRC
 - (b) Describe the necessity of fibre reinforced pavement construction in highways. Also suggest the specifications.
- 2. (a) Enumerate the low cost road construction technique.

 Describe the use of industrial waste as a low cost road material.
 - (b) Describe in brief the various features of different types of form work used in construction.
- 3. Design the framework for the beam and slab floor for the following data of the state of the s
 - (i) Thickness of floor 1= 120 mm Suntento ofter 01
 - (ii) Centre to centre spacing of beams = 3 m

	12 TUE	STORM	900	mm and	depth 400	mm belov
(iii)	Width o	f beam	A SOU	Mar will		
No.	slab	14.8	4 6.3	18 55 SECT USES	THE RESERVE OF THE PARTY OF THE	the floor

- (iv) Height of ceiling of the roof = 4 m above the floor Take live load on sheathing equal to 4000 N/m² and dead weight of wet concrete as 26500 N/m².
- 4. (a) Describe the various methods for the erection of steel structures like chimney and bridges. 10
 - (b) What do you mean by high strength bolts? Discuss its applies billion in bridger in brief. 10.
 - 5. (a) What do you mean by prestressing ? Describe various techniques of prestressing in brief. / 10
 - (b) Discuss the various steps adopted for the design of prestressed water tank.
- 6. (a) Describe the various steps required for the construction of Girder Bridge.
 - (b) What are the techniques commonly used in the construction of high rise structure and what is the effect of wind load on these structures ? Write in brief. (3:10
- 7. (a) Enumerate the construction techniques adopted in constructing a railway tunnel.
 - (b) Describe all types of safety measures in construction of underground structures. 10
- 8. Write short notes on the following
 - (a) Stripping and removal of form work
 - (b) Low cost road construction techniques
 - (c) Equipments for prestress construction ish activities
 - (d) In situ construction technique and the construction technique

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