

Roll No.

MVCT-104

M. E./M. Tech. (First Semester)

EXAMINATION, Dec., 2011

(Grading/Non-Grading System)

CONSTRUCTION TECHNOLOGY

(MVCT-104)

Time : Three Hours

Maximum Marks : $\begin{cases} GS: 70 \\ NGS: 100 \end{cases}$

Note : Attempt any five questions. All questions carry equal marks.

1. State the various techniques of construction of flexible pavements. Explain any *one* of them in detail. Also write the various joints in rigid pavements.
2. Describe with neat sketches the construction procedure of a cooling tower using slip form work. Also write the design steps for form work of a column.
3. What are the different types of connections ? State their relative merits and demerits.
4. Describe different techniques of prestressing with their applications. Also explain shoring and strutting of foundations.

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5. Describe in detail the construction technique of a gravity dam. What safety measures are needed at a big construction site ?
6. Write short notes on the following :
 - (i) Erection of Trusses for an Industrial Building
 - (ii) Low cost road construction techniques
7. State the various methods of launching the precast bridge girders and explain any *one* of them with its suitability.
8. Define clearance and tolerance. State their specified values for steel structures, also explain high strength bolts.