



DEPARTMENT OF CIVIL ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY DELHI

Session

Even Semester, AY 2022-23

Program(s)

M. Tech. - Construction Technology and Management [CEC]

M. Tech. - Construction Engineering and Management [CET]

Course

CVL 776 - Construction Practices and Equipment

Minor - II

Maximum Marks [Weightage] - 20 Marks [20%]

Fri, 24-Mar-2023

11:00 AM - 12:00 PM [01-Hr.]

### Instructions

- Attempt all questions. Keep your answer(s) brief and relevant.
- Assume any missing data/information suitably, **highlight** your assumptions (if any).
- Supplementary sheet(s) are not required, students must write the responses accordingly.

Ques. No.	Question Description	Max. Marks
Q. 1 #	Briefly discuss about general purpose (use), features (capabilities), and working of BIM collaboration platform(s). Also state salient advantages of BIM collaboration platform(s).  BIM implementation will have any positive (incremental) impact on a project's GRIHA rating or not? Write <b>two</b> relevant statements to <b>justify</b> your response (i.e., Yes/No).	3 + 1 + 1 = 05
Q. 2 #	List the typical activities involved in earthwork. Discuss about the general factors governing cost of earthwork. Outline the procedural framework for determination of the earthwork cost.	1 + 2 + 2 = 05
Q. 3 #	Write brief notes about the salient features and working (uses) of following types of formworks: [A] Climbing Formwork; [B] Flying Formwork; [C] Table Forms; and [D] Slipform.  Also, comment on the factors affecting the selection of formwork.	01 × 4 + 1 = 05
Q. 4 #	List (state) the following: [A]. Various loads on formworks [B]. General steps involved in formwork design. [C]. Requirements addressed by formwork systems <b>OR</b> design.  Briefly discuss about <b>any two</b> factors affecting later pressure of fresh concrete on formwork. Also explain (comment on) the IS code method for calculation of lateral pressure of fresh concrete on formwork.	01 × 3 + 2 = 05

End of Question Paper

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B.S.  
J.S.  
J.L.  
S.U. 05/23