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Roll No

MBCT/MVCP/MVCT-202**M.E./M.Tech. II Semester**

Examination, December 2017

Prefabrication Design & its Construction Tech.*Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any Five questions.
 ii) All questions carry equal marks.
 iii) Draw neat sketches where required.

1. a) What is the scope of precast construction in India? 7
 b) What do you mean by industrialised buildings? Discuss their necessity and scope. 7
2. a) Write down the advantages and disadvantages of prefabricated construction. 7
 b) Write a detailed note on use of prefabricated construction in mass housing. 7
3. Define and describe the followings: 14
 - i) Modular coordination
 - ii) Basic module
 - iii) Planning module
 - iv) Design module

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4. a) Define "Tolerances", its effects and provision made for production and erection process. 7
 b) Describe national building code specifications for prefabricates. 7
5. Name the different "Precast Clay Walling Elements" used in precast construction and describe in detail. 14
6. State and describe various loads to be considered for the design of prefabricates and design considerations. 14
7. a) Describe large panel construction. 7
 b) Write down I-S code provisions for modular planning. 7
8. Write short notes on any two of the followings: 14
 - i) Constrain's Jack-block system.
 - ii) Failure of precast construction.
 - iii) Vertical transportation equipments.
 - iv) Box prefabricates.
