

Roll No. ....

**ME-CTM-22**

**M. E. (Second Semester) (CTM)  
EXAMINATION, July/August, 2008  
PREFABRICATION CONSTRUCTION AND  
ITS TECHNIQUES  
(ME-CTM-22)**

*Time : Three Hours*

*Maximum Marks : 100*

*Minimum Pass Marks : 40*

- Note :** (i) Attempt any five questions.  
(ii) All questions carry equal marks.  
(iii) Suitable data can be assumed if necessary.

1. (a) What is the scope of precast construction in India ? 10  
(b) Describe the properties and different precast elements produced using "Fly Ash". 10
2. (a) Classify the Prefabrication system and describe any one in detail. 10  
(b) Define 'Module'. Discuss the Modular Planning. 10
3. (a) Describe various precast methods. Also mention their uses. 10  
(b) Define 'Tolerances', its effects and provision made for production and erection process. 10

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4. (a) Describe with neat sketch the "Plant Process" for the production of precast concrete elements. 10  
(b) Name the different "Precast Clay Walling Elements" used in precast construction and describe in detail. 10
5. (a) Describe various joints used in precast construction for joining members. 10  
(b) Name different foundation elements used in precast construction. Describe any one in detail. 10
6. (a) Name different machineries used for the production and erection of precast structures. 10  
(b) Name different "Precast Roofing Units". Describe any one in detail with neat sketch. 10
7. Describe in detail the following : 10 each  
(i) Loads for precast construction design  
(ii) Design considerations
8. Write short notes on any two of the following : 10 each  
(a) Large Panel construction  
(b) Siporex  
(c) Failure of precast construction  
(d) Lift-points and their design