



End Semester Examination – Nov/Dec – 2016

Code : **14CE2036**
Sub. Name : **Prefabricated Structures**

Semester : **2016-17 ODD**
Duration : **3hrs**
Max. marks : **100**

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Write details about materials of prefabrication	CO1	10
	b.	Write the details about the necessity of prefabrication	CO1	5
	c.	List four advantage and disadvantage of prefabrication	CO1	5
(OR)				
2.	a.	Explain in detail the general principles of prefabrication techniques	CO1	10
	b.	What is meant by modular coordination and explain about it	CO1	10
3.	a.	Explain in detail the manufacturing or production techniques in prefabrication structures.	CO1	10
	b.	Briefly explain about transportation and erection	CO1	10
(OR)				
4.	a.	Classify the components of a building based on load distribution	CO1	8
	b.	Write the test procedures on precast components in prefabrication system.	CO1	8
	c.	What is shear wall? and briefly explain its advantages.	CO1	4
5.	a.	Write the details about large panel construction in prefabrication components	CO2	8
	b.	Write the details about frame system of construction in prefabrication components.	CO2	8
	c.	What do you understand by lift slab system?	CO2	4
(OR)				
6.	a.	Explain the method of construction components column, beam and floor slab.	CO2	8
	b.	What is the need of expansion joints in precast structures?	CO2	4
	c.	Give the guidelines recommended for expansion joint design and location.	CO2	8
7.	a.	Explain the steps involved in the process of disunity of prefabricated structures.	CO2	10
	b.	Write the advantages of disuniting of structures.	CO2	5
	c.	Write the disadvantages of disuniting of structures	CO2	5
(OR)				
8.	a.	Explain the problems involved in design because of joint flexibility.	CO2	6
	b.	Why should we give allowances for joint deformation?	CO2	6
	c.	What is the difference between joint deformation and joint flexibility?	CO2	4
	d.	Mention important requirements of joint flexibility.	CO2	4
<u>Compulsory:</u>				
9.	a.	Explain the codal provisions for progressive collapse	CO2	8
	b.	Explain the methods to prevent disproportionate collapse.	CO2	8
	c.	Write four different classes of abnormal load.	CO2	4

ALL THE BEST