Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec– 2017**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **14CE2036** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PREFABRICATED STRUCTURES** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Illustrate the advantages and disadvantages of Prefabrication. | CO1 | 5 |
| b. | Describe the constrains of selection of materials for prefabrication. | CO2 | 5 |
| c. | Discuss the concept of production techniques. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | Infer the need of prefabrication. | CO1 | 5 |
| b. | Categorize the principles of prefabrication and classify its application. | CO1 | 15 |
|  |  |  |  |  |
| 3. | a. | Elaborate the techniques and application of modular coordination. | CO1 | 15 |
|  | b. | Summarize the systems of prefabrication. | CO1 | 5 |
| (OR) | | | | |
| 4. | a. | Analyse the transportation and erection techniques of prefabrication. | CO2 | 15 |
|  | b. | Give an opinion about standardization. | CO2 | 5 |
|  |  |  |  |  |
| 5. | a. | Classify the components of prefabrication. | CO1 | 5 |
|  | b. | Recommend suitable technique can be adopted in the prefabricated structure to resist lateral load and illustrate its features. | CO2 | 15 |
| (OR) | | | | |
| 6. | a. | Examine various construction systems. | CO1 | 15 |
|  | b. | Explain disuniting in prefabrication. | CO1 | 5 |
|  |  |  |  |  |
| 7. | a. | Demonstrate the design concepts in prefabrication. | CO2 | 10 |
|  | b. | Discuss joint deformation and joint flexibility and narrate its features. | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | Appraise with neat sketches of joints in prefabrication. | CO2 | 15 |
|  | b. | Discuss the importance of expansion joint. | CO2 | 5 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Interpret progressive collapse and elaborate the codal recommendations to prevent progressive collapse. | CO2 | 14 |
|  | b. | Distinguish abnormal load with progressive collapse and summarize few abnormal loads. | CO2 | 6 |

ALL THE BEST