

**B.E DEGREE EXAMINATIONS: MAY/JUNE 2013**

Sixth Semester

**CIVIL ENGINEERING**

CEE216: Prefabricated Structures

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. The transportation cost of a prefabricated member to the site
  - a) 10-15% of the total cost
  - b) 20-30% of the total cost
  - c) 50% of the total cost
  - d) Equal to the total cost
2. The construction of arched trusses can be carried out in this position only.
  - a) Vertical
  - b) Inclined
  - c) Horizontal
  - d) Both a & b
3. The structure supporting the weather skin is called
  - a) Ventilated roof
  - b) Over roof
  - c) Unventilated roof
  - d) Partially ventilated roof
4. The horizontal wall panels are called
  - a) Narrow panels
  - b) Standing panels
  - c) Battery panels
  - d) Lying panels
5. When large prefabricated members are used the number of units
  - a) Remains the same
  - b) Is increased
  - c) Is reduced
  - d) Both a & b
6. The joints which require concreting after erection are called \_\_\_\_\_ joints.
  - a) Wet
  - b) Ripid
  - c) Dry
  - d) Flexible
7. The limiting value of the admissible deviation in the size or shape of the finished prefabricate from the design requirement is called
  - a) Flexibility
  - b) Tolerance
  - c) Expansion
  - d) Allowance
8. The maximum spacing of expansion joints for an external large block is
  - a) 35 m
  - b) 60 m
  - c) 45m
  - d) 80 m



**(OR)**

- b) (i) List the problems in design because of joint flexibility. (7)
- (ii) Explain how allowance for joint deformation is provided? (7)

24. a) Explain various types of joints with neat sketches. Also list their advantages and limitations.

**(OR)**

b) Explain with an example the design and limitations of an expansion joint.

25. a) (i) What is the importance of avoidance of progressive collapse? (7)
- (ii) Explain the methods of preventing disproportionate collapse. (7)

**(OR)**

b) Discuss various code provisions recommended to avoid progressive collapse.

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