

Reg. No. \_\_\_\_\_ Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
FOURTH SEMESTER B.TECH DEGREE EXAMINATION, JUNE 2017

Course Code: **CE204**

Course Name: **CONSTRUCTION TECHNOLOGY (CE)**

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer any 2 questions carrying 15 marks each.*

1. a. Explain the properties of glass and its use in construction . (8)  
b. Discuss the role of admixtures in concrete. (7)
2. a. State the uses of steel in the construction activities. (7)  
b. Explain the process manufacture of concrete. (8)
3. a. Differentiate fibre board and particle board. (6)  
b. What is meant by workability of concrete? Discuss the factors influencing workability of concrete. (9)

**PART B**

*Answer any 2 questions carrying 15 marks each.*

4. a. Explain the different types of shallow foundations. (4)  
b. Define lintels and their classification. (4)  
c. write a note on white washing and colour washing. (7)
5. a. State the principles of filler slabs and construction detail of rat-trap bond masonry. (8)  
b. Explain the procedure adopted for laying marble flooring. (7)
6. a. Define scaffoldings and also explain the different types of scaffolding. (10)  
b. Explain painting. Mention the ingredients of paint and discuss the defects in painting. (5)

**PART C**

*Answer any 2 questions carrying 20 marks each.*

7. a. Distinguish between steel framed buildings and R.C.C framed buildings. (8)  
b. What are the different type's stairs? (6)  
c. what are the causes for foundation failures. (6)
8. a. What are construction joints? Explain. (5)  
b. List the different types of elevators. (5)

- c. List the various reasons for the failure of R.C.C members and discuss any two of them. (10)
9. a. What is a slip form? Where they are used? (6)
- b. What are the fundamental design constraints of passenger elevators? (8)
- c. Enumerate the causes of failure in steel structures. (6)