

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FOURTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), MAY 2019

Course Code: CE204
Course Name: CONSTRUCTION TECHNOLOGY (CE)

Max. Marks: 100

Duration: 3 Hours

PART A*Answer any two full questions, each carries 15 marks*

Marks

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| 1 | a) What are the various types of reinforcing steel? Explain its properties. | 9 |
| | b) What are the properties and uses of aluminium? | 6 |
| 2 | a) Explain the steps involved in BIS method of concrete mix design. | 9 |
| | b) List the requirements of good building stones. | 6 |
| 3 | a) What is the role of water in concrete? Explain the significance of testing its quality. | 9 |
| | b) Discuss the role of aggregates in concrete. | 6 |

PART B*Answer any two full questions, each carries 15 marks*

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| 4 | a) Explain various types of shallow foundations with neat sketches. | 9 |
| | b) Compare brick and stone masonry. | 6 |
| 5 | a) What is pointing? Explain its various types with neat sketches. | 9 |
| | b) Enumerate the requirements of partition walls. | 6 |
| 6 | a) Explain various types of sloped roofs with neat sketches. | 9 |
| | b) List the requirements of an ideal paint. | 6 |

PART C*Answer any two full questions, each carries 20 marks*

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| 7 | a) Explain the various types of structural systems with neat sketches. | 10 |
| | b) What is construction joint? Explain its various types with sketches. | 10 |
| 8 | a) Write a short note on slip form construction. What are its advantages? | 10 |
| | b) What are the various causes of failure in RCC structures? Explain. | 10 |
| 9 | a) Write a note on failure of structures due to wind and fire. | 10 |
| | b) Explain the various methods of retrofitting columns with sketches. | 10 |
