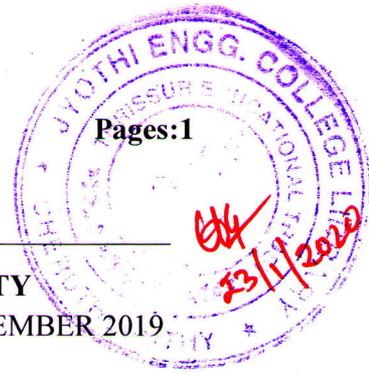


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Reg No.: _____

Name: _____

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

Course Code: CE204

Course Name: CONSTRUCTION TECHNOLOGY

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks

| | | Marks |
|---|--|-------|
| 1 | a) How is plywood manufactured? Discuss its classification and uses. | 9 |
| | b) What are the properties and uses of glass? | 6 |
| 2 | a) Define workability of concrete. What are the factors that affect workability? | 9 |
| | b) Discuss the advantages and disadvantages of steel as a construction material. | 6 |
| 3 | a) Explain the various tests done on hardened concrete. | 9 |
| | b) Describe briefly the various processes in the manufacturing of concrete. | 6 |

PART B

Answer any two full questions, each carries 15 marks

| | | |
|---|--|---|
| 4 | a) When are pile foundations preferred? Explain various types of piles. | 9 |
| | b) Explain the cavity wall construction with a neat sketch. State its advantages. | 6 |
| 5 | a) What are the requirements of a good roofing material? Explain the factors to be considered in the selection of a roof material. | 9 |
| | b) What are the advantages of (1) filler slab technology and (2) rat trap bond? | 6 |
| 6 | a) What are the functions of a lintel? Explain its various types with neat sketches. | 9 |
| | b) Distinguish between plastering and pointing. | 6 |

PART C

Answer any two full questions, each carries 20 marks

| | | |
|---|---|----|
| 7 | a) What are the advantages and disadvantages of RCC and steel framed structures? | 10 |
| | b) List the requirements of a good formwork. Describe various types of formwork. | 10 |
| 8 | a) What are the processes involved in prefabrication? State the advantages and disadvantages of prefabrication. | 10 |
| | b) What are the various causes of failure in steel structures? Explain. | 10 |
| 9 | a) Explain the various techniques for achieving earthquake resistance in buildings with neat sketches. | 10 |
| | b) Explain the various methods of retrofitting RCC slab with neat sketches. | 10 |