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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech degree examinations (S), September 2020 (S1/S2 - 2015 Scheme)

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 1 mark.

- | | | Marks |
|---|--|-------|
| 1 | List the different types of dams? | (1) |
| 2 | Define closer and bat of a brick. | (1) |
| 3 | Define soundness of cement. | (1) |
| 4 | Differentiate between stretcher and header of a brick. | (1) |
| 5 | What is the yield strength of mild steel? | (1) |
| 6 | What is King Post truss? | (1) |

PART B

Answer all questions, each carries 5 marks.

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|----|--|-----|
| 7 | List any five important roles of a Civil Engineer in society. | (5) |
| 8 | What are the important tests to determine the properties of a good building stone? | (5) |
| 9 | Explain how to ascertain the grading of aggregate. | (5) |
| 10 | What are the different types of Ashlar masonry? | (5) |
| 11 | Explain the manufacturing process of particle board. | (5) |
| 12 | What are the different types of flooring material? | (5) |

PART C

Module I & II

Answer any three full questions, each carries 6 marks.

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|----|---|-----|
| 13 | What are the selection criteria for an industrial site? | (6) |
| 14 | Explain setting out of a building. | (6) |
| 15 | What are the major ingredients of brick earth? | (6) |
| 16 | What are the steps involved in the manufacturing of tile? | (6) |

Module III & IV

Answer any three full questions, each carries 6 marks.

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|----|--|-----|
| 17 | What is mortar? Explain its various functions. | (6) |
| 18 | How will you determine the aggregate impact value? | (6) |

- 19 With neat sketches explain any three types of brick bonds used in masonry. (6)
- 20 Explain any three types of rubble masonry with neat sketches. (6)

Module V & VI

Answer any four full questions, each carries 7 marks.

- 21 Explain the different methods of preservation of timber. (7)
- 22 What are the various tests on timber? (7)
- 23 Discuss the use and properties of mild steel, medium steel and high carbon steel. (7)
- 24 Explain the different types of floors. (7)
- 25 What are the different types of roofs? Explain any two with figure. (7)
