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Reg. No.:	Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER B.TECH DEGREE EXAMINATION, JUNE 2016

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100 Duration: 3 Hours

PART A

Answer ALL questions. Each question carries 1 mark

- 1. The discipline of civil engineering that deals with purification of drinking water and waste water disposal is ______.
- 2. How igneous rocks are formed?
- 3. Which cement is ideal for under water construction?
- 4. What is a brick bat?
- 5. What is seasoning of timber?
- 6. Define span of a roof.

PART B

Answer ALL questions. Each question carries 5 marks

- Explain setting out of a building.
- 8. Describe any 3 tests conducted on stones.
- 9. Give reasons for the following: (i) During the grinding of cement a small quantity of gypsum is added (ii) The proportion of lime in cement is to be carefully maintained (2.5 marks each)
- 10. Make a short note on Random rubble masonry.
- 11. What are the defects found in timber?
- 12. Write the criteria for selection of roofing materials.



PART C

Answer Any Three questions. Each question carries 6 marks

- 13. Draw a neat section of a residential building showing various components?
- 14. Classify the types of buildings as per National Building Code of India.
- 15. Describe about the classification of bricks.
- 16. What are the qualities of a good building stone?

Answer Any Three questions. Each question carries 6 marks

- 17. Explain with a schematic diagram, the different steps involved in wet process for the manufacturing of cement.
- 18. Explain the different tests for coarse aggregates.
- 19. Draw the plan and elevation of (a) One brick wall (b) One and half brick wall (c)Two brick wall, in English bond. (2 marks each)
- 20. What are the different types of ashlar rubble masonry?

PART D

Answer Any Four questions. Each question carries 7 marks

- 21. Compare the characteristics of soft wood and hard wood in timber.
- 22. Sketch and explain any three structural steel sections.
- 23. Compare different aspects of natural seasoning and artificial seasoning.
- 24. What are the different flooring materials and explain factors affecting choice of flooring material?
- 25. Explain the different types of sloping roofs with neat diagrams.

