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FIRST SEMESTER B.TECH DEGREE EXAMINATION, JANUARY 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. What is a retaining wall?
2. What is the minimum compressive strength of brick?
3. List out the grades of Ordinary Portland Cement.
4. Which is the strongest bond in brickwork?
5. What is the full form of TMT steel?
6. Write any one relevant factor for selecting suitable flooring material

Part B

Answer ALL questions. Each question carries 5 marks

7. a) List out the various building components of your house (2)
(b) Give the functions of any three building components. (3)
8. List out the various types of tiles used in civil engineering. (5)
9. What are fine aggregates and coarse aggregates?. Write a laboratory test for assessing the grading of aggregates. (2+3)
10. Draw the plan and elevation of (a) One and half brick wall (b) Two brick wall, in English bond (2.5+2.5)
11. What are the uses of mild steel? (5)
12. What are the different types of roofing material? (5)

Part C

Answer Any 3 questions. Each question carries 6 marks

13. Explain setting out of a building
14. Classify the types of buildings as per National Building Code of India
15. Discuss the various tests conducted on roofing tiles.

16. Explain the classification of stones.

Answer Any 3 questions. Each question carries 6 marks

17. Explain (a) Fineness test of cement (b) Initial and final setting time test of cement (3+3)
18. Sketch the flow diagram in dry process of manufacture cement (6)
19. What are the essential features of English bond? (6)
20. Compare brick masonry and stone masonry? (6)

Part D

Answer Any 4 questions. Each question carries 7 marks

21. (a) What is meant by seasoning of timber? (2)
(b) Explain three different methods of seasoning. (5)
22. Discuss any seven defects occurring in timber. (7)
23. Sketch and explain any three structural steel sections (7)
24. What are the different flooring materials and factors affecting its selection? (7)
25. List out seven advantages and disadvantages of flat roof. (7)