POLYTECHNIC, B.E/B.TECH, M.E/M.TECH, MBA, MCA & SCHOOL

Notes Syllabus Question Papers Results and Many more... Available @ www.binils.com

| | Reg. No.: | |
|------|--|----------|
| | Question Paper Code: 50331 | |
| | B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023. | |
| | Third/Fourth Semester | |
| (E) | Civil Engineering | |
| | CE 8391 – CONSTRUCTION MATERIALS | |
| | (Common to : Environmental Engineering) | |
| | (Regulations -2017) | |
| Time | e: Three hours Maximum: 10 | 00 marks |
| | Answer ALL questions. | |
| | PART A — $(10 \times 2 = 20 \text{ marks})$ | |
| 1. | What are the uses of stone as building material? | |
| 2. | What is lightweight concrete blocks? | |
| 3. | What is known as setting of lime? | |
| 4. | Define cement mortar. | |
| 5. | What are the methods of proportioning of concrete mixes? | |
| 6. | Differentiate bleeding and segregation. | |
| 7. | Write the uses of thermocol. | |
| 8. | List the market form of steel. | |
| 9. | List the various properties of Glass. | |
| 10. | Define porcelain. $PART B - (5 \times 13 = 65 \text{ marks})$ | |
| 11. | (a) Explain deterioration and preservation of stone work. | |
| 11. | Or | |
| | (b) (i) Explain water absorption efflorescence test. | (7) |
| | (ii) Explain the types of brick. | (6) |
| | (ii) Explain the types of trick. | (-) |
| | | |
| | | |

POLYTECHNIC, B.E/B.TECH, M.E/M.TECH, MBA, MCA & SCHOOL

Notes Syllabus Question Papers Results and Many more...

Available @ www.binils.com

| } . | | | |
|-----|------------|---|-----|
| 12. | (a) | (i) Narrate the uses of ball mill. | (5) |
| | | (ii) Demonstrate the procedure to find flakiness index. | (8) |
| | <i>a</i> . | Question Paper 70 ode: 50331 | |
| | (b) | Paraphrase the different types of cement. | |
| 13. | (a) | Explain the factors affecting workability. LENDER ADET BURN A | |
| | | Or markenill | |
| | (b) | (i) Explain any two tests for fresh concrete in detail. | (5) |
| | | (ii) Describe the types of curing and importance of curing | (8) |
| 14. | (a) | (i) Describe the seasoning of timber. | (7) |
| | | (ii) Explain in detail the causes of decay of wood work | (6) |
| | | Or emonsority | |
| | (b) | Explain the mechanical treatment of steel. | |
| 15. | (a) | Discuss the various applications of ceramic products. | |
| | | What are the uses of stone as builds 70 storon? | |
| | (b) | Demonstrate Earth reinforcement using Geomembrane. | |
| | | PART C — (1 × 15 = 15 marks) | 8 . |
| 16. | (a) | Explain the defects in timber with suitable diagrams. | |
| | | Terran arotate of proportion of the badden of the tark W. Or | |
| | (b) | Explain the design procedure for IS methods in manufacturing concre | te. |
| | | List the market form of steel. | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | 50 | 331 |
| | | | |
| | | | |
| | | | |
| | | | |