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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Third Semester, B.E. - Civil Engineering

Semester End Examination; Dec - 2016/Jan - 2017

Building Materials and Construction

Time: 3 hrs

Max. Marks: 100

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Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

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| 1 a. With neat sketches explain dressing of stones and its types. | 10 |
| b. Explain the qualities of good brick. | 10 |
| 2 a. With neat sketches, explain various defects of timber. | 10 |
| b. Write a short note on ply wood and its uses. | 10 |

UNIT - II

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| 3 a. Explain the preliminary investigation that has to be carried out on soil samples to select suitable type of foundation. | 10 |
| b. Draw neat sketches of: | 10 |
| i) Raft foundation ii) Well foundation. | |
| 4 a. Explain different types of pile foundations. Draw neat sketches. | 10 |
| b. Write a note on foundations in black cotton soil. | 10 |

UNIT - III

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| 5 a. Differentiate between English bond and Flemish bond. Draw neat sketches of the elevation of wall built in English and Flemish bond. | 10 |
| b. Explain the method of laying marble flooring. | 10 |
| 6 a. What is shoring? Under what circumstances it is recommended? Draw neat sketch of raking shore and name the parts. | 10 |
| b. Write an explanatory note on reinforced brick work. Draw neat sketches. | 10 |

UNIT - IV

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| 7 a. Sketch the elevation of a wooden king post roof truss for a span of 6 m and name the parts. | 10 |
| b. List and explain the requirements of a good stair. | 10 |
| 8 a. Sketch the elevation of half glazed and half panelled door and name the parts. | 10 |
| b. Write short notes on : | |
| i) Bay Window | 10 |
| ii) Dormer Window. | |

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- 9 a. Explain the method of application of paint on:
 - i) New surfaces 10
 - ii) Iron and steel surfaces.
- b. Write a note on :
 - i) Stabilized mud blocks 10
 - ii) Hollow concrete blocks.
- 10 a. List and explain the advantages and disadvantages of prefabricated construction. 10
- b. Write a note on damp proof construction. 10

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