

**Babu Banarasi Das -National Institute of Technology & Management, Lucknow**

**B. Tech Second Year (Third Semester) 2018-19**

**Department of Civil Engineering**

**NAME OF FACULTY-MS NIDHI SINGH**

**BUILDING MATERIAL AND CONSTRUCTION(RCE-301)**

**Assignment: I (Unit 1)**

**NOTE-ATTEMPT ALL PARTS**

1. Write about the uses of building stones.
  2. Explain the qualities of a good timber.
  3. Explain defects due to seasoning.
  4. Write about various laboratory tests for cement.
  5. What are various types of cement?
  6. Write different classification of bricks and their uses in brief?
  7. Write Methods of manufacture of lime?
  8. What is mean by setting time of cement?
  9. Explain any two laboratory test for cement?
  10. What is a lintel. Explain.
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**Assignment: II (Unit 2)**

**NOTE-ATTEMPT ALL PARTS**

1. What is meant by distempering?
  2. 2. Mention the important guidelines for the use of plastic emulsion paints.
  3. 3. Give a brief description of the process of painting on different surfaces.
  4. 4. Explain about the materials like Gypsum, Glass?
  5. 5. Discuss briefly about various methods of manufacturing of Tiles?
  6. 6. What are the different types of painting?
  7. 7. Write about vanishes, Form Works.
  8. 8. Explain about the dressing of stones? Draw the sketches of stones neatly?
  9. 9. Differentiate between the plastering and pointing.
  10. 10. Explain about distempering, colour washing and painting.
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**Assignment: III (Unit 3)**

**NOTE-ATTEMPT ALL PARTS**

1. Explain in detail about
  - a) Cavity wall
  - b) partition wall
2. Explain in detail about Damp Proofing and water proofing materials?
3. Explain the constituents of lime stone.
4. Explain the following items in case of staircases:
  - a) Balustrade
  - b) Handrail
  - c) Soffit
  - d) pitch
5. Discuss the use of non-ferrous materials in building construction.
6. Discuss the three important types of rocks and their formation.
7. Describe Ashlar stone masonry and state its use in construction of structures.
8. What is the purpose of a cavity wall? Explain.
9. Write about Vicat apparatus and Le-chatlier apparatus
10. Explain various causes of dampness in buildings.

**\*\*Last Date of Submission .....**

**Section CE 21/CE 22**

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**Assignment: IV (Unit 4)**

**NOTE-ATTEMPT ALL PART**

1. What are the different types of floors?
  2. Draw the sketch of prefabricated roof.
  3. What are the different types of roofs explain any two?
  4. Explain coupled roof with sketch
  5. Explain about form work and scaffoldings?
  6. What is meant by quarrying state the methods of quarrying?
  7. State the general properties and importance of glass.
  8. Explain types of air-conditioning systems.
  9. comments, with relevant examples, various metal and non-metal products used in construction.
  10. Define Plastering? Give its types, explain the procedure of plastering on new surface.
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**Assignment: V (Unit 5)**

**NOTE-ATTEMPT ALL PARTS**

1. Describe the natural ventilation.
2. Describe the mechanical ventilation.
3. Write the purpose and principle of air conditioning.
4. Differentiate between plastering and pointing.
5. Explain:
  - a) Soil pipe
  - b) Waste pipe
  - c) Vent pipe
6. What are traps?
7. What do you understand by fire protection of building ?
8. What is pointing?
9. Briefly describe the various type of stair case.
10. Differentiate between escalator and lift.