



Department of Civil Engineering

Vision: “To impart quality technical education beneficial to industry and the society in the field of Civil Engineering.”

Mission: • To arrange academic and technical expertise.

• To improve the practical knowledge of the student as per current scenario of industry.

• To make the students socially and ethically responsible.

Subject Name: Construction Material(22204)

Date :- 10/02/2023

Assignment No :- 1

Course Outcome: CO204.1

Topic Name :- Overview of Construction Materials

1. What is the scope of Civil Engineering in Transportation Engineering.
 2. What is the scope of Civil Engineering in Environment Engineering.
 3. What is the scope of Civil Engineering in Irrigation Engineering.
 4. Enlist Natural construction material.
 5. Enlist Artificial construction material.
 6. Enlist some special construction material
 7. State the factors on which the selection of type of material depend.
 8. Describe the factors for selection of construction materials on the basis of strength.
 9. Describe the broad classification of materials.
 10. What do you mean by eco-friendly building materials? State any two properties of it.
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Date of Submission :-

Assign By :- Mrs. Najnin Daryavardi.



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Assignment No :- 2

Course Outcome: CO204.2

Topic Name :- Natural Construction Materials

1. List the four tools required for dressing of stone.
 2. Describe the selection criteria for selecting stone for face work of building.
 3. Explain defects in timber with neat sketch .
 4. Draw a neat sketch of cross-section of an exogenous tree and label the parts.
 5. Describe four steps in operation of stone blasting.
 6. Explain with neat sketch patterns provided in the dressing of trap stone.
 7. Define slaking of lime and lime mortar. Explain its properties.
 8. State the requirements of a good building stone.
 9. Define lime and explain manufacturing of lime by continuous kiln with neat sketch.
 10. Enlist the methods of quarrying and explain any one in brief.
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Assignment No :- 3

Course Outcome: CO204.3

Topic Name :- Artificial Construction Materials

1. List major ingredients of cement.
 2. State any two uses, advantages and disadvantages of precast concrete blocks .
 3. Draw neat sketches of: i) conventional bricks ii) standard bricks showing all the dimensions.
 4. State any four situations where hollow concrete block masonry is used.
 5. Write the field tests performed on bricks for its suitability.
 6. Write any four uses of plywood .
 7. State the applications of geo-polymer cement.
 8. Classify burnt clay bricks.
 9. Suggest the type of cement used for the following: i) for modular construction where form work needs to be removed early for re-use ii) mass concreting such as construction of dam iii) Decorative works in external surfaces of building iv)cementing the oil well.
 10. State any two types of glass along with its uses.
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Subject Name: Construction Material(22204)

Date :- 10/02/2023

Assignment No :- 4

Course Outcome: CO204.3

Topic Name :- Artificial Construction Materials

1. State the uses of veneers and laminated boards.
 2. State the characteristics of a good brick.
 3. What is moulding?
 4. Describe the field tests for cement.
 5. Explain various types of tiles based on their use.
 6. What are the properties of precast pavement blocks?
 7. Enlist any four types of special bricks.
 8. Suggest the type of glass used for the following work: i) Making panel of partition wall ii) Cashier cabin iii) Sky light iv) Door shutter
 9. State important properties and uses of distemper.
 10. State the uses (two each) of the following construction materials : i) Soda lime glass ii) Ferrous metal
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Assignment No :- 5

Course Outcome: CO204.4

Topic Name :- Special Construction Materials

1. State suitability of : i) waterproofing materials and ii) Sound insulating materials
 2. State situations where sound insulating and damp proofing materials are used.
 3. List the materials used for water proofing.
 4. Describe in brief termite proofing.
 5. State the properties of thermal insulating materials.
 6. What is wall cladding? State two merits & demerits of it.
 7. State the uses of : i) Glass fibres ii) Asbestos fibres.
 8. Explain the method by which waterproofing of existing old slab can be done.
 9. List out any four mode of payment and explain any one mode.
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Date :- 10/02/2023

Assignment No :- 6

Course Outcome: CO204.5

Topic Name :- Finishing Materials

1. Define Plaster of Paris. State any two uses of plaster of Paris.
 2. State the situations where following paints are used: i) Oil Paints ii) Distempers iii) Varnishes iv) Cement paints
 3. State properties of good mortar.
 4. Write four types of special mortar and give one use of each.
 5. Enlist the types of paints.
 6. State the properties and uses of varnishes.
 7. Define enamel paint and plastic paint.
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