

3RD Sem
Building Material and Construction Technology

2 Marks questions

- a. What is the use of frog in a brick?
- b. What do you mean by water cement ratio?
- c. What is igneous rock?
- d. What is seasoning of timber?
- e. What is the use of 'vechile' in a paint?
- f. Define foundation.
- g. What is stretcher and header in a brick masonry?
- h. What is D.P.C and why it is provided?
- i. Define dog legged stair?
- j. Define the term 'Dado' in plastering work?

5 Marks Questions

- a. What are various methods adopted in manufacturing of bricks. Explain kiln burning process.
- b. Discuss the geological classification of rocks.
- c. Define and explain workability of concrete.
- d. State briefly the requirement of good staircase?
- e. Draw the plan of alternate course in English bond '1-brick thick wall'.
- f. Explain the method of constructing cement concrete flooring.
- g. Describe briefly different methods of damp proofing.

10 Marks Questions

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| 3 | Name and explain different ingredients and their function in cement. What are different types of cement available in India where they are used? | 10 |
| 4 | Explain different types of shallow foundation in detail with neat sketch? | 10 |
| 5 | Classify with the help of figure various types of windows based on their method of operation or opening? | 10 |
| 6 | What is green building? Explain in details the features or principle of green building. | 10 |
| 7 | What are the various ingredients of paints? State the functions of each of them. | 10 |

3RD SEM
Civil Engineering Material

1. 2 Marks Questions.

- a. What are the types of rocks according to their geological classification?
- b. State the carbon content in cast-iron and wrought-iron.
- c. What is mortar?
- d. Define admixtures.
- e. What are the materials used in making an RCC work?
- f. Differentiate between fine sand and coarse sand.
- g. What kind of defect is blistering in case of painting?
- h. State the standard brick size as recommended by the BIS.
- i. Define workability of concrete.
- j. What is the soundness test for bricks?

2. 5 Marks Questions

- a. How are burnt bricks classified?
- b. Write a short note on bulking of sand.
- c. State the advantages of using PVC for doors and windows of a building.
- d. What are the ingredients of a varnish?
- e. What is the importance of water cement ratio in concrete?
- f. What is the purpose of glazing?
- g. How are tar, bitumen and asphalt different from each other?

3. 10 Marks Questions

- a. Explain the purpose of curing of concrete and the effects of improper curing on it.
- b. Compare natural seasoning of timber with kiln seasoning.
- c. Describe the entire process of distempering.
- d. How is the compressive strength of cement determined in laboratory?
- e. List the qualities of good bricks.

3RD SEM
Construction Technology

2 Marks questions

- a. What do you mean by header and stretcher in a bond?
- b. What are the different methods of site exploration?
- c. Define the term foundation and mention their purposes.
- d. What do you mean by bearing capacity of soil?
- e. What do you mean by workability?
- f. Define scaffolding.
- g. Differentiate between pier and abutment.
- h. Define Gable and Ridge.
- i. Define Baluster and winder.
- j. Differentiate between peeling and popping in plastering.

5 Mark Questions

- a. With help of neat figures explain the term 'Sub-structure' and 'Super structure' of a building.
- b. Explain load bearing and non load bearing walls with suitable examples.
- c. What are the important sources of dampness?
- d. Classify the different types of arches according to shape.
- e. With a neat sketch, show the following components of a door frame Head, Rebate, Post, Horn, Iron, Holdfast and Mullion.
- f. Draw a neat sketch showing English bond for one and one half brick wall.
- g Briefly describe the construction of terrazo flooring.

10 marks questions

- a. What is building? Discuss the various types of building based on occupancy.
- b. Describe briefly with neat sketches the various types of stone masonry used in building construction.
- c. Briefly describe the process of painting on new wood work.
- d. Briefly explain classification of pile according to its function, material and installation.
- e. Describe briefly the damp-proof treatments adopted in building construction.