

H-105/18

3RD SEM./CIVIL/ 2020(W)NEW
Th3- Building Material and Construction Technology

Time- 3 Hrs

Full Marks: 80

Answer any five Questions including Q No.1 & 2
Figures in the right hand margin indicates marks

2 x 10

1. Answer All 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?

2. Answer Any Six 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.

6 x 5

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

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1. Answer **All** questions 2 x 10
- a. What is the function of alumina and silica in brick earth?
 - b. Define water cement ratio.
 - c. What is seasoning of timber?
 - d. What is the role of solvent in paint?
 - e. Differentiate between shallow foundation and deep foundation.
 - f. What do you mean by king closer in brick masonry?
 - g. What do you mean by throating in stone masonry.
 - h. Name different tests used to measure workability of concrete.
 - i. Differentiate landing from flight.
 - j. What is D.P.C and why it is provided.
2. Answer **Any Six** Questions 5X6
- a. What do you mean by workability of concrete? Describe the importance of workability on the strength of concrete.
 - b. What are the characteristics of a good Timber?
 - c. Describe the purpose of use of Arch and lintel in a building.
 - d. Explain the characteristics of good building stone.
 - e. Classify pile foundation and write briefly.
 - f. State the functions of constituent parts of paints.
 - g. Why curing is necessary in cement concrete work?
3. Classify stair depending on the method of construction. 10
4. Explain different operations involved in the brick manufacturing process. 10
5. Name various types of Doors. Described about any two types of doors with neat sketch. 10
6. Explain different methods of damp proofing treatment. 10
7. Classify building depending on the occupants. 10