

Roll No.

Total Pages : 2

002306**Mar. 2022****B.Tech. (Civil) III SEMESTER****Building Materials and Testing (PCC-CV207R)**

Time : 90 Minutes]

[Max. Marks : 25

Instructions :

1. *It is compulsory to answer all the questions (1 mark each) of Part-A in short.*
2. *Answer any three questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) List out the various test on Bitumen. (1)
- (b) What is meant by Sealant? (1)
- (c) List out the types of bricks for special use. (1)
- (d) Write short notes on rapid hardening cement. (1)
- (e) What are the various uses of lime? (1)
- (f) What is Hydration? (1)
- (g) What are the objectives of using paint? (1)
- (h) Explain what is meant by aggregate crushing value. (1)

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- (i) What is steel? Explain briefly. (1)
- (j) How the initial and final setting time are determined? (1)

PART-B

2. (a) Discuss the requirement of good paint. (3)
- (b) Explain the constituents of lime stone briefly. (2)
3. (a) Differentiate between paints and distemper. (2)
- (b) Explain how the aggregate toughness can be measured. (3)
4. Explain the defects in timber. (5)
5. (a) State the general properties of glass. (3)
- (b) Classify the aggregates based on shape and surface texture of aggregate. (2)
6. (a) Explain about the Moisture content of aggregates? (2)
- (b) What should be the length and breadth of a brick? Why is this proportion important in masonry construction? (3)
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