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**Question Paper Code: 42105**

B.E. / B.Tech. DEGREE EXAMINATION, JUNE 2021

Second Semester

Civil Engineering

14UCE205 – CONSTRUCTION MATERIALS

(Regulation 2014)

Duration: 1.45 hours

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

**(Answer any TEN of the following questions)**

1. For one cubic metre of brick masonry, number of bricks required, is \_\_\_\_\_
2. Excess of alumina in the clay \_\_\_\_
3. What are the defects in brick masonry?
4. The commonly used raw material in the manufacture of cement is what?
5. State Bulking of sand.
6. What is meant by hydration of cement? What is its importance?
7. Vicat's apparatus is used to perform \_\_\_\_\_
8. The slump test of concrete is used to measure its \_\_\_\_\_
9. When RMC is recommended?
10. Seasoning of timber is the process of \_\_\_\_\_
11. What is the Purpose of seasoning.

12. What is timber?
13. The property which a steel can withstand blows of hammer is \_\_\_\_\_
14. The carbon content in mild steel is in the range of \_\_\_\_\_
15. What is the difference between steel and cast iron?

PART – B (3 X 10 = 30 Marks )

**(Answer any THREE of the following questions)**

16. List the criteria for selection of stone as a building material.
17. Construct a flow diagram for dry and wet process of manufacture of cement with brief explanation.
18. Explain in detail the various factors affecting workability of concrete.
19. What are the characteristics of good timber? What is the object of seasoning it? Explain briefly the different methods of seasoning timber.
20. Describe the types of hot rolled steel sections and cold formed steel sections.

