

M. Tech. Structural Engineering & Construction (CBCS Pattern) Sem-I
PSES13 - New Construction Materials

P. Pages : 1

Time : Three Hours



GUG/W/22/10963

Max. Marks : 70

Note : Solve **any five** questions.

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|-----------|----|---|----------|
| 1. | a) | Distinguish between high strength concrete and high-performance concrete. Write in detail J ring test and V funnel time test. | 7 |
| | b) | Discuss in detail the different technique for measurement of toughness for fibre reinforced concrete. How sampling for concrete should be done for quality control tests. | 7 |
| 2. | a) | Explain two important factors that influence the corrosion of metal. | 7 |
| | b) | What is meant by electro chemical corrosion? | 7 |
| 3. | a) | Name any three material which are added in alloy steel to resist corrosion. | 7 |
| | b) | Differentiate between dry corrosion and wet corrosion. | 7 |
| 4. | a) | What are the factors to be considered by selecting water proofing material? | 7 |
| | b) | Explain the selection criteria of water proofing system for wet areas. | 7 |
| 5. | a) | What are various flooring and façade material available. Write their specification. | 7 |
| | b) | Explained recycle material used for green building. | 7 |
| 6. | a) | Write note on five resistance material used for green building. | 7 |
| | b) | Write note on refractories and glass wool. | 7 |
