17CV44

(08 Marks)

(12 Marks)

(10 Marks) (10 Marks)

(10 Marks)

(10 Marks)

(04 Marks)

(12 Marks)

(04 Marks)

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7

Discuss the concept of mix design and variables in proportioning of concrete.

Write step by step procedure for mix design as per IS-code.

(10 Marks)

OR

8 Design a concrete mix for M30 Type of cement: OPC 53 grade Max nominal size of aggregates 20mm down W/C: 0.50 Min cement content: as per IS-code Exposure condition: Moderate Workability: 100mm slump f. Max cement content: As per IS-code Fine aggregate: Zone 2 A. Cement – Type of cement: OPC 53 grade Specific gravity 3.15 B. Coarse aggregate – specific gravity 2.70 water absorption: 1% free surface moistures NI C. Fine aggregate – specific gravity 2.65 water absorption 2% free surface moisture 2% Note: Assume any missing datas. CMRIT LIBRARY (20 Marks) BANGALORE - 560 037 Module-5 List the advantages and disadvantages of Ready mix concrete. (06 Marks) What is self compacting concrete? List the benefits of self compacting concrete. (08 Marks) Explain flow ability test (V funnel test) for S.C.C. (06 Marks) Write short notes on light weight concrete and fibre reinforced concrete. 10 (10 Marks)

Discuss different types of fibre used in fibre reinforced concrete.