

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER M.TECH DEGREE EXAMINATION, OCT 2020

Civil Engineering

(Structural Engineering)

01CE6107: ADVANCED THEORY AND DESIGN OF RC STRUCTURES

Max. Marks: 60

Duration: 3 Hours

D

Instructions: Answer any two questions from each Part

PART A

- Design a simply supported beam b = 300 mm, D = 550 mm. Factored moment due to UDL is 350 kNm. Effective span 6.5 m, f_{pk} = 25N/mm², f_p = 415 N/mm².
- 2. a) Explain the effect of cyclic loading on concrete under uniaxial states of stress (3)
 - b) Design the reinforcement in a column of size 300 mm diameter subjected to a factored axial load of 1500 kN and a factored moment 50 kNm. The unsupported length of the column is 3 m and is braced against side sway in both directions. Use M 25 concrete and Fe 415 steel. Use helical reinforcement as stirrups. (6)
- 3. a) Compare limit state method with working stress method. (4)
 - b). Explain the design procedure for slender columns. (5)

PART B

- a) What are the factors influencing crack width in flexural members? Briefly describe the mechanism of flexural cracking and how it is controlled in the design.
 - b) A beam of width 230 mm and depth 400 mm having cover to reinforcement 25 mm is reinforced with 4 rods of 16 mm diameter. When the section is subjected to a BM of 100 kNm calculate the maximum crack width at the base.
 (6)
- 5. a) Explain the principle of shear wall analysis. (3)
 - b) Estimate the deflection of a simply supported rectangular RCC beam 300 x 600 mm having an effective span of 4 m subjected to a maximum bending moment of 210kNm, of which 60% is due to permanent loads, grade of concrete M20 and grade of steel is Fe415.

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