

**D**

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

Instructions: Answer any two questions from each Part

PART A

1. Design a simply supported beam $b = 300$ mm, $D = 550$ mm. Factored moment due to UDL is 350 kNm. Effective span 6.5 m, $f_{ck} = 25$ N/mm², $f_y = 415$ N/mm². (9)
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 M25 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

4. 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. (3)
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 300×600 mm having an effective span of 4 m subjected to a maximum bending moment of 210 kNm, of which 60% is due to permanent loads, grade of concrete M20 and grade of steel is Fe415. (6)

Civil Engineering Assistant Engineer Question Papers

Terry C. Jones



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Table of Contents Civil Engineering Assistant Engineer Question Papers

1. Understanding the eBook Civil Engineering Assistant Engineer Question Papers
 - The Rise of Digital Reading Civil Engineering Assistant Engineer Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Assistant Engineer Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Civil Engineering Assistant Engineer Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Assistant Engineer Question Papers
 - Personalized Recommendations
 - Civil Engineering Assistant Engineer Question Papers User Reviews and Ratings

- Civil Engineering Assistant Engineer Question Papers and Bestseller Lists
- 5. Accessing Civil Engineering Assistant Engineer Question Papers Free and Paid eBooks
 - Civil Engineering Assistant Engineer Question Papers Public Domain eBooks
 - Civil Engineering Assistant Engineer Question Papers eBook Subscription Services
 - Civil Engineering Assistant Engineer Question Papers Budget-Friendly Options
- 6. Navigating Civil Engineering Assistant Engineer Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Civil Engineering Assistant Engineer Question Papers Compatibility with Devices
 - Civil Engineering Assistant Engineer Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Civil Engineering Assistant Engineer Question Papers
 - Highlighting and Note-Taking Civil Engineering Assistant Engineer Question Papers
 - Interactive Elements Civil Engineering Assistant Engineer Question Papers
- 8. Staying Engaged with Civil Engineering Assistant Engineer Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Civil Engineering Assistant Engineer Question Papers
- 9. Balancing eBooks and Physical Books Civil Engineering Assistant Engineer Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Civil Engineering Assistant Engineer Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Civil Engineering Assistant Engineer Question Papers
 - Setting Reading Goals Civil Engineering Assistant Engineer Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Civil Engineering Assistant Engineer Question Papers
 - Fact-Checking eBook Content of Civil Engineering Assistant Engineer Question Papers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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