

**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)

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Table of Contents View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b

1. Understanding the eBook View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - The Rise of Digital Reading View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - Advantages of eBooks Over Traditional Books
2. Identifying View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - 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 View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b

- User-Friendly Interface
- 4. Exploring eBook Recommendations from View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - Personalized Recommendations
 - View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b User Reviews and Ratings
 - View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b and Bestseller Lists
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- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - Highlighting and Note-Taking View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - Interactive Elements View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b

8. Staying Engaged with View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
9. Balancing eBooks and Physical Books View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - Setting Reading Goals View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
 - Fact-Checking eBook Content of View.phpdataisro Civil Engineering Question Papers&filetype&ide1c05d86af7fd2d50a9901cd1e7c249b
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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