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# JAYA GROUP OF INSTITUTIONS

THIRUNINRAVUR 602024

8<sup>th</sup> Semester - B.E.

Model Examination : 1 - February 2015

Sub. Title : **Repair and Rehabilitation of Structures**  
Sub. Code : **CE 2071**  
Duration : **3 Hrs**

Date : **10.02.2015.**  
Branch : **Civil Engg.**  
Max. Marks : **100.**

*Answer all questions*

## Part A - (10 x 2 = 20)

1. What is Maintenance ?
2. What is Physical Inspection of Damages Structure ?
3. What are the effects of selection of Poor materials for Construction ?
4. What are the possible decisions after finding a structure to be inadequate ?
5. What are the possible decisions that can be made evaluating the strength of a structure ?
6. Write any two tests for assessment of frost damage ?
7. What are the types of cracks ?
8. Give the various types of spalling ?
9. Define Corrosion ?
10. Define Effective Cover ?

## Part B - (5 x 16 = 80)

11. (a) Describe the steps in the assessment procedure for evaluate damages in a structure ? [16]

Or

- (b) Explain the various causes for deterioration of concrete structures ? [16]

12. (a) Describe in detail about the prevention aspect of maintenance ? [16]

Or

- (b) Describe in detail about the repair aspect of maintenance ? [16]

13. (a) Explain in detail about the permeability of concrete ? [16]

Or

- (b) Explain about quality assurance ? [16]

14. (a) Describe the various component of quality control ? [16]

Or

- (b) Discuss in detail about the thermal properties of concrete ? [16]

15. (a) Explain about the effects of temperature on concrete ? [16]

Or

- (b) Explain about the corrosion protection methods ? [16]