

Course No: CONS 5204  
Course Title: Restoration  
and Rehabilitation of Buildings  
Date: 09 /03/2019  
No. of Questions: (2)  
Time: 60 mins  
Using Calculator (No)

University of Palestine



Midterm Exam  
2018/2019  
Total Grade: 15

Instructor Name: Dr. Ali I. Tayeh  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: Engineering  
Using Dictionary (No)

**Question One:**

**5/15**

**1. Read the following questions carefully, and then write T (true) or F (false) on the line next to the question.**

1. \_\_\_ Preservation is the process of maintaining a structure in its present condition and preventing further deterioration.
2. \_\_\_ Only old concrete buildings need rehabilitation.
3. \_\_\_ Building frame system consists of slabs with beams (dropped) supported on columns.
4. \_\_\_ Adding additional water to the concrete during mixing or casting leads to low strength and porous concrete.
5. \_\_\_ In ribbed and waffle slabs, beams are rigidly connected with columns.
6. \_\_\_ One of the advantages of rehabilitation is the lack of standard design and analysis method.
7. \_\_\_ Impervious wood formwork may result in crazing cracks in flat plate floor system.
8. \_\_\_ Crazy cracking is caused by evaporation of water before concrete setting.
9. \_\_\_ Excessive deflections occur at elements subjected to axial forces such as buckling of columns.
10. \_\_\_ Restoration eliminates solid waste from landfills.

**Question Two:**

**5/15**

**For each question, choose the correct answer from the multiple-choice list.**

1. \_\_\_\_\_ is a defect related to structural elements in slabs.  
A. Beam deflection                      B. Overloading                      C. Foundation settlement
2. \_\_\_\_\_ is caused by pouring concrete from large heights.  
A. Slip                                      B. Honeycombing                      C. Segregation



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**3. What are the factors that affect the safety of the structures adversely and may lead to instability and partial or full collapse?**

**4. Briefly explain the environmental impact of restoration.**

End of Questions  
Good Luck