

FEDERAL UNIVERSITY OF TECHNOLOGY
SCHOOL OF ENVIRONMENTAL TECHNOLOGY
ARCHITECTURE DEPARTMENT
2014/2015 RAIN SEMESTER EXAMINATIONS.

Course title: - BUILDING COMPONENTS AND METHODS IV

Course code: - ARC 304

Time Allowed: - 2 HOURS

Date: - Monday August, 17th 2015

Mark: - 70%

Instruction: Answer all questions.

1.
 - a. Define Asphalt.
 - b. Discuss the process of water tightness on a reinforced cement concrete flat roof.
 - c. State other uses of asphalt and bitumen.
 - d. List five (5) sound proofing materials.

2.
 - a. What is sound insulation; explain the factors affecting sound insulation.
 - b. State the action areas sound/ noise can be controlled.
 - c. State four (4) principles of sound insulation.
 - d. what is heat insulation? Describe ways we can insulate against heat in our buildings.

3.
 - a. Discuss briefly the areas that Fibre cement boards are applied?
 - b. Define Asbestos cement and enumerate the properties that made them suitable for Roofing sheets.
 - c. Through a section a pitch roof, show with a sketch the timber roof members and their various dimensions.

4.
 - a. Write briefly on engineered wood.
 - b. Differentiate between this type of wood and the natural wood.
 - c. State the uses of asbestos cement product in the manufacturing and building industry.

GOODLUCK!!