

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
SCHOOL OF ENVIRONMENTAL TECHNOLOGY
DEPARTMENT OF BUILDING TECHNOLOGY
Rain Semester Examination 2012/2013 session

Course Code: BDT 206

Course Title: Building Services

Time: 2 Hours

Instructions: Answer any five questions

- 1a. What determines the quantity of water supplied to a multi storey building?
- b. If you are in charge of water supply in a multi-storey building, how will you ensure there is a regular flow of water at all the upper floors, considering the fact that pumps that supply water to the upper floors are likely to breakdown do to overwork.
- 2a. Explain briefly, the two ways of distributing water to various areas of a building and its surroundings.
- b. What are the three principal reasons of storing water after purification?
- c. Write short notes on each reason stated.
- 3a. Explain how water is connected from the water mains pipe to the service pipe.
- b. Differentiate between the following (i) main pipe (ii) service pipe.
- c. Sketch a typical water supply pipe layout in any building.
- 4a. Draw and label an Auto pneumatic pump or booster.
- b. What are the uses of such a pump in building services?
- 5a. Explain with the aid of labeled drawing, how hot water is supplied into a building.
- b. Name and explain the two types of hot water supply system you know.
- 6a. In any residential building, list and explain essential services that must be provided for such building.
- b. Differentiate between services to be provided to industrial buildings and residential buildings.
- c. Is there difference(s) in services to be provided between commercial and industrial buildings? State reason(s) for your answer.