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FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
SCHOOL OF ENVIRONMENTAL TECHNOLOGY
DEPARTMENT OF BUILDING TECHNOLOGY
RAIN SEMESTER EXAMINATION 2011/2012 SESSION.

Course: BDT 206 –Building Services.

Time: 2 Hrs.

Instruction: Answer any 4(four) questions.

- 1a) Explain the functions of open spaces inside and around a building.
- 1b) In a 10 storeys building, list needed equipments for fire-fighting if there is a fire out-break in such a building.
- 2a) With aid of sketches, differentiate between a direct hot water supply system and an indirect hot water supply system.
- 2b) List three (3) most common mountings for hot water supply boilers in providing services to buildings.
- 3) List and mention types of sanitary appliances that should be provided in any building services. What are the most common materials used in these sanitary appliances. Why would you choose one material type over another in providing building services.
- 4) In building drainage systems, differentiate between the following:
 - (i) Combined sewer and partially separate sewer systems.
 - (ii) Separate sewer and surface water runoff systems.
- 5a) What would you advise your client as requirements to provide as sanitary fittings for construction of a four-classroom block for a secondary school of 40 pupils in each classroom.
- 5b) Sketch a simple type of septic tank and a typical section of a rectangular biological filter.