FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF ENVIRONMENTAL TECHNOLOGY DEPARTMENT OF ARCHITECTURE

FIRST SEMESTER EXAMINATION 2017/2018 SESSION

COURSE TITLE: CONSTRUCTION TECHNOLOGY II

COURSE CODE: ARC 313

INSTRUCTIONS: Time allowed: 1Hr 30min

Answer question one and any other two.

All sketches must be in pencil

All sketches must be in penen	
Q1. (a) Explain the term "roofing system" (b) With illustrations explain the following in a roof:	3marks
(i) the pitch of a roof(ii) the span of a roof	4marks 4marks
 (c) Using good sketches, show the following roofing systems: (i) Hip roof (ii) Gable roof (iii) Mono-pitch roof 	3marks 3marks 3marks
(d) Using sketches explain the following terms associated with roofs (i) ridge (ii) Valley	5marks 5marks 30 marks
Q2. Explain using sketches, the construction of the following types of foundation (i) strip foundation (ii) Solid slab raft (iii) cellular raft	ons 5marks 5marks 5marks 15marks
Q3. (a). What is a staircase?(b). Explain and show with sketches the following	3marks 4marks
(i) step (ii) half space landing (iii) rise of a flight.	4marks 4marks
	15marks
Q4. (a.) What is a floor? (b) Explain using sketches the following types of upper floors (i) Slab and beam (ii) unofficient	5marks
	5marks
(ii) waffle grid.	5marks 15marks