

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA.

SCHOOL OF ENVIRONMENTAL TECHNOLOGY,

DEPARTMENT OF ARCHITECTURE

SECOND SEMESTER EXAMINATION: 2017/2018 SESSION.

NAME OF LECTURER: AHMED, S.

HEAD OF DEPT: DR. P. AYUBA

COURSE CODE: ARC. 223; COURSE TITLE: CONSTRUCTION TECHNOLOGY II

LEVEL : 200 LEVEL ARCHITECTURE

TIME : TWO AND HALF HOURS (2 HOURS 30 MINUTES)

INSTRUCTION: QUESTION ONE IS COMPULSORY. CANDIDATES ARE EXPECTED TO ATTEMPT THREE (3) QUESTIONS IN ALL

Neat sketches and clarity of expression attract more marks.

QUESTION 1.

(a) With the aid of a well annotated sketches only, describe the construction of the following foundation types: (i) Wide strip foundation (ii) Raft foundation (iii) Deep strip foundation 18 marks

(b) State briefly the soil and site conditions under which the above named foundation types are used

10 marks

TL = 28 marks

QUESTION 2

Describe the steps to take in setting out buildings on site

16 marks

QUESTION 3

a) Discuss the main features of the traditional building materials in northern Nigeria

b) Explain briefly why the reduction in the use of such traditional building materials

16 marks

QUESTION 4

As an architect commissioned to supervise a building site, what are the preliminary site assessment required to determine its suitability for building construction, and the nature and extent of work required before the commencement of work?

16 marks

TOTAL = 60 MARKS