

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION
SECOND SEMESTER EXAMINATION 2020/2021

Course Code: ITE 347

Course Title: Building Construction III (Superstructure)

Instruction: Answer Four Questions Only

Time: 2 hour

1. a) Explain in detail the function of cavity wall in a building structure
b) By means of sketches show the following brick terms
i) King Closer ii) Queen Closer iii) Half Bat iv) Stretcher v) Header
c) Explain five functional requirements of wall in building

2. a) Draw a sectional view of a stair case and label its parts
b) Differentiate between load bearing wall and non-load bearing wall
c) Discuss the process involved in the production of sand-crete block

3. a) Outline the advantages and disadvantages of blockwork over brickwork
b) Explain the following materials used for roof covering
i) Built-up felt roofing ii) Asphalt iii) Sheet Metal
c) By means of sketch show the elevation of the following bond
i) Header bond ii) Stretcher bond iii) English bond iv) Flemish bond

4. a) State five building regulations requirements for stair
b) Differentiate between bonded and unbonded wall
c) List out the different materials used for ceiling finishing in Nigeria

5. a) List and explain two types of doors used in residential building
b) Write short note on the following
i) Spiral stair ii) Winder stair iii) Double L stair
c) Discuss two methods used for bridging an opening