

Course Title: Construction Technology II

Course code: ARC 313

Course Lecturer: Dr O.K. Akande

Time Allowed: 2 Hrs

H.O.D: Dr P. Ayuba

Instruction: Answer question 1 and any other 2 questions (Answer only 3 questions in all)
All answers are to be adequately supported with sketches where necessary

1. a, Describe (in not more than a sentence each) of the following:

- i) Single joist timber floors
- ii) The span for single floor
- iii) Double Floors
- iv) The span of double floors

b, Using diagrams only, illustrate Soundproofing timber upper floors

c, Itemise and compare the four major differences between

- (i) Solid poured floor
- (ii) Pre-cast/hollow concrete slabs

d, Based on their working operations, itemise

- i) The different types of doors used in buildings
- ii) The different types of windows used in buildings

Total = 30 Marks

2. With the aid of annotated sketches demonstrate your understanding of the following:

- a. Bridging/Strutting in timber floors
- b. Opening in timber upper floor;

Total = 15 Marks

3. Only with the aid of annotated sketches, describe

- a. Components of a window
- b. Components of a panel door

Total = 15 Marks

4. With the aid of well annotated sketches, identify and describe the following parts of Stairs

- a) Half Newel post
- b) Landing return
- c) Handrail
- d) Spindle/Baluster
- e) Tread:
- f) Riser:
- g) Newel cap
- h) Newel posts
- i) Base rail
- j) Closed string stair case

Total = 15 Marks