

DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION
FEDERAL UNIVERSITY OF TECHNOLOGY MINNA
FIRST SEMESTER EXAMINATION 2022/2023
COURSE CODE: ITE532
TIME: 2;30mins

Moderated
21-8-2023

COURSE TITLE: TECHNICAL AND ARCHITECTURAL DRAWING

Instruction: Answer all questions in section A and any **One** in section B

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SECTION A (50 Marks)

Q1. The diagrams attached, show the floor plan of a residential building. Produce to specifications

1. the floor plan of the building to a scale of 1:100 (9 marks)
2. the front elevation and (9 marks)
3. the right side elevation (9 marks)

Q2 Produce the following.

1. Section Y – Y to a scale of 1:50 (9 marks)
2. Roof plan (9 marks)

Specifications:

- a. 150mm x 50mm Hardwood King Post
- b. 75mm x 50mm Hardwood Purlins @ 600 centers
- c. 150mm x 50mm Hardwood Rafters @ 1000 centers
- d. 100mm x 50mm Hardwood Struts
- e. 150mm x 50mm Hardwood Tie Beam
- f. POP ceiling @ 2700mm above Tilling Floor
- g. Eave Projection 600
- h. 250 hard core
- i. 150 thick concrete oversite
- j. 675 x 225 reinforced column foundation footing

SECTION B (15 Marks)

Q3a. Outline ten (10) basic steps to follow when producing balsa model. (10 marks)

b. List and explain in details, the three (3) types of architectural model. (5 marks)

Q4a. Enumerate seven (7) advantages of an architectural model. (10 marks)

- b. Define the followings
 - i. site plan
 - ii. building plan.
 - iii. sectioning (5 marks)

Good Luck