FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF ENVIRONMENTAL TECHNOLOGY DEPARTMENT OF QUANTITY SURVEYING

FIRST SEMESTER EXAMINATION 2017/2018 SESSION

COURSE CODE: QTS 312 COURSE TITLE: BUILDING CONSTRUCTION TECH. III

IN

TIME ALLOWED: 2 Hours 30 Minutes	CREDIT LOAD: 2 Units
NSTRUCTION: Answer all Questions	

Ques a) b) c)	Differentiate between Staircase and Ramp
Ques	etion Two:
a) b) c)	List and explain any three (3) major types of bricks in building works
Question Three:	
a) b) c) d)	Explain the principles of 'Natural-dry seasoning' of timber and the 'artificial or kiln seasoning
Ques	stion Three:
a)	State any three types of cement you know(4 Marks)
b)	Distinguish with examples, the difference between ferrous and non-n ferrous metals(4 Marks)
c)	Explain with sketches, any four (4) types of skirting you know
d)	Write short notes on the following:
	i) Pebble-dash finish(1 Marks)
	ii) Spatter-dash finish(1 Marks)
	iii) Machine-applied finish(1 Marks)

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FIRST SEMESTER EXAMINATION 2017/2018 SESSION

COURSE CODE: QTS 313 COURSE TITLE: BUILDING & DEVELOPMENT ECONOMICS

TIME ALLOWED: 2 Hours

CREDIT LOAD: 2 Units

INSTRUCTION: Attempt All Questions

SECTION B

Q13a. Briefly explain the processes involved in Cost Control.

Q14a. Write short note on each of the following:

i. Mechanization ii. GDV iii. Developers Budget

iv. Legal and Agency Fees v. Cost of Finance

15 marks

Q14b. A developer wishes to purchase a site using the information below. Calculate the maximum the developer can offer for the site.

20 marks

INFORMATION

Building Area = 24,000m2

Professional Fees = 10%

Building Cost $= N=600.00 / m^2$

Legal Fees = 21/2%

Cost of External Work = =N=850,000.00

*Construction Period = 15 months

Anticipated Gross Income = =N=2,220,000.00/year

Outgoing = N=45,000.00/year

Cost of Finance = 5%

Developers Returns = 7% (to calculate Y.P)

Developers Profit = 10%

(35 Marks)

TOTAL SCORES: 70Marks GOOD LUCK

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FIRST SEMESTER EXAMINATION 2017/2018 SESSION

COURSE CODE: QTS 211 COURSE TITLE: CONSTRUCTION MEASUREMENT I

TIME ALLOWED: 2 Hours CREDIT LOAD: 3 Units

INSTRUCTION: Attempt all Questions. Read the questions carefully and credit shall be given to

neat presentation of works. The use of besmm4 is allowed

QUESTION ONE

- a. The essence of measurement standards is hinged on the need to have a common language and approach in the measurement of construction work. What are the main reasons for the consistency in the rule? 13marks
- b. Itemise checklist that can assist in achieving satisfactory results when taking-off quantities 6 marks
- c. The process of measurement of building or civil engineering works is often referred to as "Taking off". Enumerate the essential knowledge a taker off should possess. (6 marks)

QUESTION TWO

Using the drawings labeled FUTMX/SET/QS/2018/221A-D and the specification notes given below take-off for the substructure complete. 35marks

Site and Specification

- a. Bushes found on site 20.00m x 19.00m
- b. Topsoil of average depth 150mm to be preserved in temporary spoil heaps 20.00m away from excavation site.
- c. Plain in-situ concrete to be (1:2:4-19mm aggregate)
- d. Reinforced in-situ concrete in bed (1:3:6-38mm aggregate)
- e. block work to be 225mm thick hollow sandcrete blocks in cement and sand mortar 1:3, and filled solid with weak concrete (1:4:8-40mm aggregate)

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FIRST SEMESTER EXAMINATION 2017/2018 SESSION

COURSE CODE: QTS 311 COURSE TITLE: CONSTRUCTION MEASURMENT II

TIME ALLOWED: 2¹/₂ Hours

CREDIT LOAD: 3 Units 1

INSTRUCTION: Attempt all questions, presentation of Taking-off must be neat & logical

Question 1: Use the attached Architectural Drawings of a Semi-Detached 1-Bedroom Bachelor's flat, nos: QTS/311/001 and QTS/311/002

- a) Take-off Quantities for Superstructure Block wall (Internal and External walls) 20 marks
- b) Prepare Doors and Windows Schedule for the project using the specification provided in the notes below10 marks
- c) Take-off quantities for "Louver Windows" in opening size 1,200 x 1,200 mm only ... 20 marks

Question 2:

- a) Produce a typical Reinforcement Bending Schedule Table 5 marks
- b) Outline the "Measurement Checklist" for Suspended Concrete Upper Floor 5 marks

NOTE:

- > All external Walls are 225mm thick wall
- All internal Walls are 150mm thick wall
- ➤ Height of the Building 3,200mm
- All Doors are purpose made "Solid-core" Flush with 150 x 50mmwrot hardwood frame
- All windows are "Louver window" with 150 x 50mm wrot Hardwood frame plugged and secured to background

B THIHA.

MATRIC MO: __

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FIRST SEMESTER EXAMINATION 2017/2018 SESSION

COURSE CODE: QTS 313 COURSE TITLE: BUILDING &DEVELOPMENT ECONOMICS
TIME ALLOWED: 20 Minutes

CREDIT LOAD: 2 Units

INSTRUCTION: Fill in the blank spaces with the correct word or phrase in your question paper. Detach this sheet and submit this section before you proceed to Section B. Write your Matriculation

Number boldly on this sheet.

SECTION A

Q1. Building Economics consists of the
Q2. The development value of a piece of land is the difference between the cost ofand the market price of
Q3. One of the constraints faced by developers is the problem of proper decision making as to whether to
Q4. Building Economics andare commonly used titles to embrace the various areas of focus falling into this field of study.
Q5. The need for thorough and
Q6. Mechanisation is the performance of all basic and auxiliaryandoperations by machines or mechanised devices.
Q7. The vital resources essential to construction, which should be in steady supply in industrialized construction are
1)iv)
ii)v)
iii)
Q8. The full meaning of CBD in Land use Division is
Q9. The following environmental issue affects the work of the surveyor:
i)ii)
iii)iv)
Q10. The main aim of a developer is the art of phasing development to give
Q11. Land is so
Q12. Building Economics is an aspect of a design process which seeks to discriminate between