

145



**SECOND SEMESTER EXAMINATION 2017/2018 SESSION**

**COURSE CODE:** QTS 321 **COURSE TITLE:** *Construction Measurement III*

**TIME ALLOWED:** 3 Hours

**CREDIT LOAD:** 3 Units

**INSTRUCTION:** Answer all questions in section A and any other one in section B. Marks will be awarded for clear and logical presentation of work. Credit will be given for legibility and methodical order in taking off and appropriate waste calculations. All assumptions must be clearly indicated. You are advised to study the drawing in conjunction with the specification notes.

**SECTION A**

Q1. With reference to the attached drawing nos: QTS 321/2017/2018/01, take off for the substructure of step foundation in the drawing attached. (23marks)

Q2. The attached drawing nos QTS 321/2017/2018/02 is a proposed building complex for the Department of Quantity Surveying, as a Quantity Surveyor you have been assigned to take off for the concrete framed structure that comprises of columns from ground floor, attached beams and suspended floor only with all their associated works. (23 marks)

**SECTION B**

Q3. With reference to the attached drawing nos: QTS 321/2017/2018/03, take off for the staircase and all associated works of the attached drawing (exclude measurement of reinforcement bar and metal work). (14 marks)

Q4. As a Quantity Surveyor to a building firm you have been assigned to take off for the finishes aspect of the attached drawing nos QTS 321/2017/2018/04, using the schedule of finishes attached. (14 Marks)

**Specification Notes**

**Ceiling:** The whole apartment is made up of 6mm x 600mm x 600mm celotex ceiling board with twice emulsion paint both internally and externally.

**Walls:**

- (i) Site out, Lobby, Sitting room and Dining, bed rooms, and verandah are to be plastered and apply 2ce emulsion paint.
- (ii) Kitchen will be plastered with 12mm th cement and sand , and finished with 2undercoats and one finish coat of hard gloss paint.
- (iii) From 1.8 m and above to ceiling height in toilet and bath will be plastered with 12mm thick cement and sand (1:4) and 2ce emulsion paint, and 6 x150 x150 white glazed wall tiles on trowelled backing will be used from ground to 1.8m high.

Floor:

- (i) Toilet and bath, lobby, and Sitting and dinning will be floored with 18mm in situ terrazzo finish on cement and sand base (1:4)
- (ii) 150 X 150 X 16mm red quarry ceramic tiles will be applied on screeded bed at the kitchen and verandah.
- (iii) 3 mm thermoplastic PVC tiles will be applied on cement and sand screed at the bed rooms
- (iv) Site out will contains 50mm trowelled bed.

Skirting:

- (i) 150mm x 12mm quarry tile skirting with rounded top and 12mm c & s (1:3) backing will be applied to dinning and sitting room only
- (ii) 150mmx 25mm splayed top edge hardwood skirting, plugged and KPS (2) to be applied to Bed rooms