

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA

SCHOOL OF ENVIRONMENTAL TECHNOLOGY

DEPARTMENT OF QUANTITY SURVEYING

FIRST SEMESTER EXAMINATION, 2018/2019 SESSION

COURSE CODE: QTS416

COURSE TITLE: Tendering & Estimating III

TIME ALLOWED: 2 HOURS

CREDIT LOAD: 2 Units

INSTRUCTION: Attempt All Questions.

- I. a) Discuss the three (3) major forms of wastage which allowances made in material estimating cover. *(8 Marks)*
b) Mention five (5) basic information required for estimating preliminary items. *(5 Marks)*
c) Estimate the preliminary cost to be inserted in the bill of quantities for contractor's site supervision for a project of which you are the Quantity Surveyor in- charge. Contract period is 18 months. Make necessary assumptions. *(12 Marks)*

2. a) 35nos vitreous china low level W.C suite complete with cast iron cantilever bracket and wooden plug fixed to concrete floor are to be fixed in the toilet of a ten – storey building. Estimate the cost of the work as the Quantity Surveyor in – charge of the project. Make necessary assumptions. *(15 Marks)*
b) 32mm PVC tubing with coupling is in the running length, fixed with clips @ 1m c/c. Calculate the cost/m. Take cost of the full length tubing pipe to be ₦2,000. Make other assumptions accordingly. *(10 Marks)*

3. a) 2.5mm twin core PVC cable in conduit. Calculate the cost of 200m. Take the cost/m of 2.5mm PVC cable to be ₦175. *(10 Marks)*
b) 20mm PVC rigid screwed conduit fixed to concrete or block wall in chases. Calculate the cost of 500m. Take cost/m of 20mm PVC conduit to be ₦550. *(15 Marks)*

4. a) Define what you understand by pro – rata rates and state the methods of assessing pro – rata rates. *(8 Marks)*
b) What are the basic features of a correct estimate in Civil Engineering works? *(7 Marks)*
c) Use neat sketches to illustrate each of the documents below which are used for calculations in Civil Engineering works.
 - i. Details of measurement form
 - ii. Abstract of cost form
 - iii. Abstract of quantities form
 - iv. Material statement form
 - v. Labour statement form*(10 Mark)*