

DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY
UNIVERSITY EXAMINATIONS 2020/2021
FIRST YEAR END OF SEMESTER EXAMINATION FOR THE DIPLOMA IN
BUILDING TECHNOLOGY
TBT 0111: BUILDING SERVICES AND MAINTAINANCE

DATE:APRIL 2020

TIME:2HRS

INSTRUCTIONS:

Questions one is compulsory and attempt any other two questions.

- 1 a) What is the purpose of a water closet (2mrks)
b) Explain **four** sanitary fitting used in a building (8mrks)
c) State **two** areas where sewer lines collect sewage and waste water (2mrks)
d) Explain **four** principles of house drainage (8mrks)
e) Draw the following attachments as used in building
 i. Sockets
 ii. Elbow
 iii. Union
 iv. Water tap (8mrks)
f) State **two** classification of water supply mains (2mrks)
- 2 a) Define what is a trap and explain its importance in a building. (3mrks)
b) Define the following terms (12mrks)
 i. Ventilating pipe
 ii. Anti-siphonage pipe
 iii. Waste pipe
 iv. Inspection chamber
- 3 a) State **three** testing of drains done in house drains (3mrks)
b) Explain **six** maintenance of drainage system (12mrks)
- 4 Draw well labelled sketch of a septic tank (15mrks)
- 5 a) State and explain **three** systems of plumbing of drainage work in a building (9mrks)
b) Explain **three** desirable features in the design of household septic tanks (6mrks)