



MACHAKOS UNIVERSITY

University Examinations for 2020/2021

**SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF BUILDING AND CIVIL ENGINEERING
EXAMINATION FOR DIPLOMA IN**

BUILDING TECHNOLOGY AND CIVIL ENGINEERING

2707/2705/102 CT: CONCRETE TECHNOLOGY

DATE: 8/6/2021

TIME: 8:30 – 11:30 AM

INSTRUCTIONS

ATTEMPT ALL THE QUESTIONS

1. a) Define the term concrete (2 marks)
 b) Discuss three ingredients for making concrete (9 marks)
 c) Outline the process of manufacturing cements (9 marks)
2. a) Outline 5 advantages and 3 disadvantages of concrete as building materials (8 marks)
 b) State four cements components stating the functions in cement (8 marks)
 c) State four advantages of dry process of manufacturing cement (4 marks)
3. a) Define the term aggregate (2 marks)
 b) State four qualities of aggregates (8 marks)
 c) Discuss two types of aggregates (8 marks)
 d) State four uses of concrete (2 marks)
4. Discuss four properties of wet and dry concrete (20 marks)
5. a) Differentiate between admixture and additives (2 marks)
 b) Discuss 4 types of admixtures (8 marks)
 c) Discuss 4 types of cements (8 marks)