



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations for 2015/2016

SCHOOL OF ENGINEERING AND TECHNOLOGY

BUILDING AND CIVIL ENGINEERING DEPARTMENT

DIPLOMA IN CIVIL ENGINEERING

ENGINEERING MATERIALS CAT I

TIME 1½ HOURS

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|---|------|
| 1 (a) State and explain 3 geological classes of stone | 9mks |
| (b) Explain the following methods of mining stones | |
| I wedging | |
| li excavation | 6mks |
| 2 (a) Differentiate between hardwood and softwood | 8mks |
| (b) State and explain four causes of stone deterioration | 4mks |
| (c) Discuss the following methods of converting timber: - | |
| I Through and Through | |
| li Rift sawn | 4mks |
| 3 List 4 properties of construction materials | 4mks |