



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS SECOND YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DIPLOMA IN (INFORMATION TECHNOLOGY)

COURSE CODE: DIT 074

COURSE TITLE: INTRODUCTION TO SOFTWARE

ENGINEERING

DATE: 12/11/2020

TIME: 2.00 P.M. - 5.00 P.M.

INSRUCTIONS TO CANDIDATE

ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION ONE (COMPULSORY)	[24 MARKS]
a) Explain the following terms in relation to software development:	
i. Software safety	[2 Marks]
ii. Software	[2 Marks]
b) Distinguish between systems engineering and software engineering.	[4Marks]
c) Outline Six attributes of good software.	[6 Marks]
d) Explain the following concepts as applied to software engineering:	
i. Software quality assurance	[2 Marks]
ii. Software quality control	[2 Marks]
e) Explain the following types of software requirements.	
i. User requirements	[3 Marks]
ii. System requirements	[3Marks]
QUESTION TWO	
a) Discuss four main problems associated with software project management.	[18 MARKS]
b) Discuss five types of software documentation.	[10 Marks]
	[10 Warks]
QUESTION THREE	[40 B# A DIZO]
i. Explain software prototyping in software development	[18 MARKS]
ii. Outline four benefits of prototyping.	[4 Marks]
b) Explain three activities included in requirements analysis.	[4 Marks]
	[6 Marks]
c) Discuss two possible problems caused by software engineers and developers requirements analysis.	
requirements analysis.	[4Marks]
QUESTION FOUR	[18 MARKS]
a) Describe the White Box testing in relation to software development.	[4 Marks]
b) In order to manage a successful software project, we must understand what c	an go wrong so
that the problem can be avoided. Explain three signs that indicate an Information Systems	
Project is in Jeopardy.	[6 Marks]
c) Explain what project management is in software development.	[2 Marks]
d). State and Explain Three reasons why software projects need to be managed	[6 Marks]

QUESTION FIVE	[18 MARKS]
a. Distinguish between functional and non-functional requirements.	[4Marks]
b. Describe four software maintenance types.	[12 Marks]
c. What is software evolution?	[2Marks]