



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2017/2018 ACADEMIC YEAR

SCHOOL OF SCIENCE AND INFORMATION SCIENCES

DEPARTMENT OF COMPUTING AND INFORMATION SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION

FOR DEGREE IN INFORMATION SCIENCES

COURSE CODE: COM 312

COURSE TITLE: SOFTWARE ENGINEERING II

DATE: 25TH APRIL 2018

TIME: 8:30AM-10:30AM

INSTRUCTIONS TO CANDIDATES:

ANSWER ALL QUESTIONS IN SECTION A AND ANY 2 QUESTIONS IN SECTION B

This paper consists of 3 printed pages. Please turn over.

SECTION A COMPULSORY [30 MARKS]

QUESTION ONE

- a) Define the terms
- i. Software [2 Marks]
 - ii. Software Engineering [2 Marks]
- b) Distinguish between the following
Software Engineering and System Engineering [4 Marks]
- c) State and explain two types of Software products [4 Marks]
- d) Discuss any three Issues of professional responsibility of a software engineer [6 Marks]
- e) Explain the importance of dependability and state Principal dimensions of dependability [5 Marks]
- f) Distinguish between the following terms as used in software “Software design” and “software implementation” [4 Marks]
- g) Explain the Computer-aided software engineering (CASE) tool [3 Marks]

SECTION B ANSWERS ANY TWO QUESTIONS [40 MARKS]

QUESTION TWO [20 MARKS]

- a) Define the term software process [2 Marks]
- b) Discuss the Four Generic activities in all software processes
are: [8 Marks]
- c) Discuss the three kinds of critical systems [6 Marks]
- d) Distinguish between “Context models” and “Process models” of systems
model [4 Marks]

QUESTION THREE [20 MARKS]

- a) Outline five possible models used to document the design [5 Marks]
- b) Discuss Three CASE classification [6 Marks]
- c) Explain what is Software Requirements engineering [2 Marks]
- d) Discuss any two kinds of requirements [4 Marks]
- e) Define the term Ethnography and state the Two kinds of Ethnography [3 Marks]

QUESTION FOUR [20 MARKS]

- a) Define the term software process model [2 Marks]
- b) State and explain three Generic software process models [9 Marks]
- c) Discuss the two kinds of Evolutionary development [4 Marks]
- d) Explain Component-based software engineering and state its process stages [5 Marks]

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