



#### KIBABII UNIVERSITY

(KIBU)

### UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR

## SPECIAL/SUPPLEMENTARY EXAMINATIONS YEAR FOUR SEMESTER TWO EXAMINATIONS

# FOR THE DEGREE OF BACHELOR OF SCIENCE (COMPUTER SCIENCE)

COURSE CODE

: CSC 467E

COURSE TITLE

: SOFTWARE METRICS

DATE: 27/09/2017

TIME: 11:30 A.M - 1:30 P.M.

**INSTRUCTIONS TO CANDIDATES** 

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

#### QUESTION ONE (COMPULSORY) [30 MARKS]

(a)		
i.	With the aid of a diagram describe the term software metrics	[4 Marks]
ii.	Distinguish between direct and indirect metrics give examples	[6 Marks]
iii.	Describe the terminology function point count	[4 Marks]
iv.	1	
v.	Describe FOUR Characteristics of software quality	[4 Marks]
vi.	Describe Mc cabe's Cyclomatic Complexity Measure	[6 Marks]
QUESTION TWO [20 MARKS]		
b) Explai	n the FOUR activities in measurement planning n ANY SIX limitations and constraints software developers should implementing a metrics program	[8 Marks] d be aware of [12 Marks]
QUESTION THREE [20 MARKS]		
Describe the difference between function points and Source line of code		[20Marks]
QUESTION FOUR [20 MARKS]		
There are five classes of metrics generally used from a commercial perspective to measure the		
quantity and quantity	uality of software. Describe the five classes of those metrics	[20 Marks]
QUESTION FIVE [20 Marks]		
Describe the software requirement metrics. Give example		[20 Marks]