

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2014/2015**

**EXAMINATION FOR THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY**

**BIT 2112: SYSTEM ANALYSIS AND DESIGN**

**DATE:AUGUST 2015 TIME: 2 HOURS:**

**INSTRUCTIONS: Answer question one and any other two questions.**

**QUESTION ONE**

a. Define the following terms as used in SAD

i. Software

ii. System

iii. Operating system

iv. Utility software. (8 marks)

b. Differentiate between Bespoke product and an offshelf product. (4 marks)

c. Discuss the importance of a Bespoke system. (4 marks)

d. Describe what CASE tools are. (3 marks)

e. State what activities are defined at upper CASE and lower CASE tools level.

(8 marks)

f. Describe the attributes that depicts a quality software. (5 marks)

g. Software designing if faced by many unique challenges. Describe same of challenges likely to be encountered at this stage. (6 marks)

**QUESTION TWO**

a. Discuss the tem feasibility study. (3 marks)

b. Discuss the three major areas of feasibility study that must be addressed in system analysis. (7 marks)

c. Differentiate between logical and physical design. (4 marks)

d. Describe the three divisions of testing. (6 marks)

**QUESTION THREE**

a. Effective system software project management focuses on 4Ps. Discuss each of the items indicating in contribution to the entire project. (8 marks)

b. Explain the term prototype. (2 marks)

c. Using a well labelled diagram explain the steps involved in prototyping model of software development. (8 marks)

d. Describe problem decomposition. (2 marks)

**QUESTION FOUR**

a. Define the term quality. (2 marks)

b. Garvins identifies four views of quality, briefly discuss those views. (8 marks)

c. Documentation of a life cycle models is a vital component of software development briefly describe any five such documents. (10 marks)