



(Knowledge for Development)

**KIBABII UNIVERSITY
(KIBU)**

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
YEAR 1 SEMESTER 2**

**FOR THE DEGREE OF
MASTER OF SCIENCE (INFORMATION TECHNOLOGY)**

COURSE CODE : MIT 821

**COURSE TITLE : ENTERPRISE APPLICATION
DEVELOPMENT & ARCHITECTURES**

DATE: 21/10/2018

TIME: 9.00 AM – 12.00 PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.

SECTION A (COMPUSARY20 MARKS)

Question One (20 Marks)

- a) Describe the following as used in system implementation phase 6mks
 - i. Parameterized Interface
 - ii. Wrapper
 - iii. Adapter
- b) Why would you use 3-tier architecture approach in web programming? 6mks
- c) What three things does Java servlets do? 3mks
- d) What are the components of the user Interface? 2mks
- e) The logical model defines the business entities that will be rendered by the application and what policies and rules will be used to operate on those entities. What questions does this model answer? 3mks

Section B (Answer any three questions in this section)

Question Two (20 Marks)

- a) Outline the different architectural approaches in Content Based Development 4mks
- b) N-Tier is 3 or more tiers architecture. Explain the five layers in this architecture 10mks

Question Three (20 Marks)

- a) A servlet is a java class that extends an application hosted on a web server. Describe its common uses 6mks
- b) State and explain in detail why one would use servlets 10mks
- c) Explain four human factors in interface design 4mks

Question Four (20 Marks)

- a) Describe three Application layers of the application architecture 6mks
- b) Describe the information display factors from the presentation point of view 5mks
- c) What objectives would you to design a better user interface? 5mks
- d) Describe the question-and-Answer interfaces 4mks

Question Five (20 Marks)

- a) What is an Enterprise Application? 4mks
- b) The business model defines the goals and context of the business in funding the application. Give the questions about your application this model answers. 12mks
- c) An enterprise application is Large explain 4mks