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[Knowledge for Development]

**KIBABII UNIVERSITY**

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**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**SPECIAL/SUPPLEMENTARY EXAMINATIONS  
YEAR FOUR SEMESTER ONE EXAMINATIONS**

**FOR THE DEGREE IN BACHELOR OF SCIENCE IN  
(INFORMATION TECHNOLOGY)**

**COURSE CODE : BIT 416**

**COURSE TITLE : ENTERPRISE  
APPLICATION DEVELOPMENT**

**DATE: 18/11/2022**

**TIME: 2:00 P.M – 4:00 P.M.**

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**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTIONS ONE AND ANY OTHER TWO.**

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

- a. Define Logical model as used in enterprise applications. [2marks]
- b. Distinguish between functional teams and feature teams as used in enterprise application development team roles. [4marks]
- c. Describe the four main stages involved in project management. [8marks]
- d. Explain what you understand by scaling team roles as used in enterprise application development. [4marks]
- e. Explain the three fundamental principles of user interface design. [6marks]
- f. A big advantage of using the Enterprise Application Model as a design guide is that it lets you start anywhere. Explain [6marks]

### QUESTION TWO [20 MARKS]

- a. Design methods can be categorized as one of three kinds i.e. Top-down structured design, Data-driven design and Object-oriented design. Explain [6marks]
- b. Distinguish between the Incremental model and agile model of application development. [4marks]
- c. Describe how the internet affects the user model. [6marks]
- d. Explain the three tier architecture using enterprise application development goals. [4marks]

### QUESTION THREE [20 MARKS]

- a. Give four advantages of building a project organization on a small, mutually-interdependent team. [4marks]
- b. Distinguish between a method and methodology as used in analysis and design of business applications. [4marks]
- c. Explain the role of decomposition when designing complex software systems. [4marks]
- d. Explain the functions of the following teams as used in enterprise application development: [8marks]
  - i. Logistics planning team
  - ii. Program management team
  - iii. Development team
  - iv. User education team

### QUESTION FOUR [20 MARKS]

- a. To design an enterprise application you must consider and balance an enormous array of application requirements. Explain [10marks]
- b. Explain what you understand by the term Project plan. [2marks]
- c. Distinguish between inheritance and polymorphism as used in Java Programming language. [4marks]

- d. State and explain any four Business logic tools that you can use to develop an enterprise application. [4marks]

**QUESTION FIVE [20 MARKS]**

- a. With examples explain the overall team structure used for enterprise application development. [12marks]
- b. Distinguish between an object and a class. [4marks]
- c. Explain how the business model interacts with the technology model in enterprise application development [4marks]