





KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR TWO SEMESTER ONE EXAMINATIONS

FOR THE DEGREE OF BACHELORS OF SCIENCE (INFORMATION TECHNOLOGY)

COURSE CODE: BIT 215

COURSE TITLE: SYSTEMS ANALYSIS AND DESIGN

DATE: 24/01/2022 TIME: 2.00 P.M. - 4.00 P.M

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

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QUESTION ONE (30 MARKS) [COMPULSORY] Describe the unique role of systems analysts in the development of information systems. [2 Marks] b. (i) Explain why information systems (IS) are essential in organizations. [2 Marks] (ii) Explain the difference between front-office information systems and back-office [2 Marks] information systems. c. Describe two cross lifecycle activities that overlap multiple system development phases. [4 Marks] d. Differentiate between PERT and Gantt charts as project management tools. [2 Marks] e. It is important to find out how the end users and managers feel about the problem solution [3 Marks] that the system analyst has identified. Discuss. f. Identify the five tasks that are done in the scope definition phase. [5 Marks] g. Describe two benefits of using JRP as a fact -finding technique. [4 Marks] h. A relationship is a natural business association between entities. Identify the relationship [2 Marks] between student and lecturer. Explain any two reasons why many information systems projects fail. [4 Marks] **OUESTION TWO (20 MARKS)** The following are the four classical phases in the Systems Development Life Cycle (SDLC). For each phase identify TWO deliverables, briefly describe each of these deliverables and [20 Marks] identify the techniques used to produce it. a. Requirements identification b. Analysis c. Design d. Implementation **QUESTION THREE (20 MARKS)** a. For each letter of the PIECES framework, use Kibabii University Health Centre scenario to create a problem that a system analyst might discover in the obsolete information system. [10 Marks] b. Describe the waterfall method of systems development and briefly explain why this method [10 Marks] is less popular now than it used to be. **OUESTION FOUR (20 MARKS)** a. Describe the eight major activities in the project management life cycle. [16 Marks] b. i. "Many new systems analysts fail to effectively analyze problems". Justify [2 Marks] ii. Suggest what new systems analysts can do to become more effective. [2 Marks] **QUESTION FIVE (20 MARKS)** [10 Marks] a. Describe the five phases of systems analysis.

c. Discuss any two possible consequences of failing to identify system requirements correctly

[2 Marks]

[6 Marks]

[2 Marks]

b. Explain the importance of conducting the requirements discovery process.

d. Explain the difference between logical and physical models.

and completely.