

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY 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: 16/02/2021

TIME: 11.00 AM - 1.00 PM.

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. 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. [2 Marks] d. Differentiate between PERT and Gantt charts as project management tools. e. It is important to find out how the end users and managers feel about the problem solution that the system analyst has identified. Discuss. f. Identify the five tasks that are done in the scope definition phase. [3 Marks] g. Describe two benefits of using JRP as a fact -finding technique. [5 Marks] h. A relationship is a natural business association between entities. Identify the relationship [4 Marks] between student and lecturer. i. Explain any two reasons why many information systems projects fail. [2 Marks] [4 Marks] **QUESTION 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 identify the techniques used to produce it. [20 Marks] a. Requirements identification b. Analysis c. Design d. Implementation QUESTION THREE (20 MARKS) a. For each letter of the PIECES framework, create your own example of a problem that a system analyst might discover in an obsolete information system. b. Describe the waterfall method of systems development and briefly explain why this method is [10 Marks]

less popular now than it used to be. [10 Marks]

QUESTION FOUR (20 MARKS)

a. Describe the eight major activities in the project management life cycle. b. i. "Many new systems analysts fail to effectively analyze problems". Justify [16 Marks] ii. Suggest what new systems analysts can do to become more effective. 2 Marks [2 Marks]

QUESTION FIVE (20 MARKS)

a. Describe the five phases of systems analysis. b. Explain the importance of conducting the requirements discovery process. [10 Marks]

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

d. Explain the difference between logical and physical models. [6 Marks] [2 Marks]