



Kasarani Campus
Off Thika Road
Tel. 2042692 / 3
P. O. Box 49274, 00100
NAIROBI
Westlands Campus
Pamstech House
Woodvale Grove
Tel. 4442212
Fax: 4444175

KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR
THIRD YEAR, FIRST SEMESTER EXAMINATION
FOR THE BACHELOR OF BUSINESS INFORMATION TECHNOLOGY

KBI 2311 – SYSTEM ANALYSIS AND DESIGN FOR BUSINESS

Date: 16th December, 2022
Time: 11:30am – 1:30pm

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Explain different things that the system analyst needs to capture and document during system investigation and survey. (4 Marks)
- b) Distinguish between functional system requirement and technical system requirements; give examples in each of them. (6 Marks)
- c) State and explain the three most common methods of system investigation used during data collection to develop a system. (6 Marks)
- d) Explain the roles of the following system project team skills.
 - i) System administrator
 - ii) System designer (6 Marks)
- e) Briefly discuss different activities that a system developer has to undergo during system development life cycle. (8 Marks)

QUESTION TWO (20 MARKS)

- a) Explain factors to consider when designing an effective questionnaire during system planning. (5 Marks)
- b) Explain four advantages of using a Prototype methodology model of develop a system. (5 Marks)
- c) Explain reasons as to why conducting feasibility study is important when developing a system. (10Marks)

QUESTION THREE (20 MARKS)

- a) Explain different factors that the system developer involves during the system design phase. (10 Marks)
- b) By use of a well-drawn diagram to describe how waterfall model methodology of developing systems works. (10 Marks)

QUESTION FOUR (20 MARKS)

- a) Documentation in system planning and development is the umbrella term that encompasses all written documents and materials dealing with a system product's development and use. Discuss the objectives of this system documentation.
(10 Marks)
- b) Identify and explain any five types of feasibility that should be carried out by a system developer.
(10 Marks)

QUESTION FIVE (20 MARKS)

- a) Explain any four main differences between management information systems (MIS) and decision support systems (DSS).
(4 Marks)
- b) Describe the four types of systems maintenance.
(8 Marks)
- c) Discuss the four system implementation methods that can be used during implementation phase.
(8 Marks)