

## UNIVERSITY EXAMINATIONS

#### **BACHELOR IN INFORMATION TECHNOLOGY**

ACADEMIC YEAR: 2021/2022 UNIT NAME: SYSTEMS ANALYSIS AND DESIGN

SEMESTER: SEPTEMBER – DECEMBER 2021 UNIT CODE: BSIT 2130

DATE: SEPTEMBER 2021 Main exam TIME: 2 HOURS

INSTRUCTIONS: Answer question one (30 marks) and any other two

#### **IMPORTANT NOTICE !!!!!!!!!!!**

The following are the possible consequences if found guilty of an Examination Offence:

a) Expulsion from the University.

f. Explain the "PIECES" Framework.

a Define the following terms:

b) Academic Leave.

## **QUESTION ONE (COMPULSORY 30 MARKS)**

a. Define the following terms,	
i. Systems Analysis	[I Mark]
ii. Systems Design	[I Mark)
iii. Feasibility Study	[I Mark]
iv. Systems Theory	[I Mark]
v. Veto	[I Mark]
b. In developing a feasibility study, what FIVE pertinent questions on the current s to be adequately answered?	situation need: [5 Marks]
c. With help of diagrams differentiate between the Gantt and PERT Charts.	[6 Marks]
d. List any FIVE activities undertaken in the design phase	[5 Marks]
e. When does a Project Manager apply Critical Path Method?	[3 Marks]

[6 Marks]

# QUESTION TWO (20 MARKS)

a. What are the key objectives of a feasibility study?	[6 Marks]
b. What are the FIVE primary objectives of the planning phase?	[5 Marks]
c. Describe an information system as a whitebox.	[5 Marks]
d. Differentiate between logical and physical designs is database design.	[4 Marks]
QUESTION THREE (20 MARKS)	
a. Explain any TWO types of feasibility study.	[6 Marks]
b. What are the most crucial issues when designing forms and dialog boxes?	[6 Marks]
Issues when designing forms and dialogue boxes:	
c. List and briefly explain analysis phase activities	[6 Marks]
d. Give two disadvantages of Return on Investment.	[2 Marks]
QUESTION FOUR (20 MARKS)	
a. Overall project control entails a number of activities. Enumerate any SIX.	[6 Marks]
b. Give any FIVE causes of project failure according to UK Office of Government	Commerce. [5 Marks]
c. Differentiate between functional and non-functional requirements.	[4 Marks]
c. i. What is Business Process Re-engineering?	[2 Marks]
ii. What are THREE ways of analyzing Costs vs. Benefits.	[3 Marks]

# **QUESTION FIVE (20 MARKS)**

a. i. Comprehensive guidelines to follow for completing every activity in the system development life cycle, including specific **MODELS**, **TOOLS** and **TECHNIQUES**. Differentiate between the THREE words.

[6 Marks]

ii. Give TWO examples of each in a) i. above.	[3 Marks]
b. Give FOUR advantages of having common interfaces.	[4 Marks]
c. What FIVE crucial things make a good user interface?	[5 Marks]
d. Explain the word Swimlane.	[2 Mark2]

