

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR: BACHELOR OF BUSINESS ADMINISTRATION

HBC 2124: INFORMATION SYSTEMS ANALYSIS & DESIGN

END OF SEMESTER EXAMINATION SERIES: AUGUST 2013
TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consists of **FIVE** questions. Attempt question **ONE** and any other **TWO** questions Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One (Compulsory)

a)	List THREE factors used as a basis for selecting a systems project	(3 marks)
b)	Explain TWO key areas of cost benefit analysis as used in feasibility study	(4 marks)
c)	Explain TWO outputs from the definition phase	(3 marks)
d)	Describe TWO contents of a design specification	(4 marks)
e)	Describe three guidelines used in testing programmes at implementation phase.	(6 marks)
f)	Explain THREE factors used to assess a system performance	(6 marks)

g) Describe **TWO** techniques used in fact gathering (4 marks)

Question Two

- **a)** Define the following terms:
 - (i) System
 - (ii) Systems Analysis (4 marks)

b) Outline systems theory (4 marks)

- **c)** Differentiate between:
 - **(i)** Open and closed systems
 - (ii) Transaction and decision support systems
 - (iii) Positive and negative feedback

(12 marks)

Question Three

a) Use a diagram to explain functions at three different levels of an organization

(8 marks)

b) Explain **TWO** decisions that can be made at each level of the pyramid.

(8 marks)

c) State the software classifications that can be used at each level of the organization hierarchy.

(4 marks)

Question Four

a) State **FOUR** characteristics of a software project

(4 marks)

- **b)** List **FIVE** reasons that make software projects more problematic compared to other conventional projects. **(5 marks)**
- **c)** Briefly discuss the relationship between budgets and schedules in projects.

(8 marks)

d) Describe **THREE** risks in software projects.

(3 marks)

Question Five

a) Explain the following terms as used in network analysis.

(i)	Critical path	(2 marks)
(ii)	Activity	(1 mark)
(iii)	Event	(1 mark)

b) Given the following data:

Activity	Preceding Activity	Duration
A	-	2
В	-	2
С	A	3
D	В	2
E	C, D	1
F	C, D	4
G	E	2
Н	F	4
I	G, H	2

- Draw the network diagram for the project Identify the critical path and duration of the project (12 marks) (4 marks) (i) (ii)