

UNIVERSITY EXAMINATIONS 2011/2012 ACADEMIC YEAR INSTITUTIONAL BASED PROGRAMME

2ND YEAR EXAMINATION FOR THE DIPLOMA IN INFORMATION COMMUNICATION AND TECHNOLOGY

COURSE CODE/ TITLE: SCT D214: SOFTWARE ENGINEERING

END OF SEMESTER II DURATION: 2 HRS

DAY/TIME:TUESDAY3.00 PM-5.00PM DATE: 28.08.2012 ()

Instructions

Answer question one and any other two questions

Section 1: Compulsory Question

Question1 (40 Marks)

a)	Define Software Engineering	(2 Mark)
b)	Distinguish between system software and real-time software	(4 Marks)
c)	Discuss three Generic Software Engineering Phases	(6 Marks)
d)	Explain three Advantages and three Disadvantages of Linear Sequential Model of	
	software engineering	(6 Marks)
e)	Computer-based system system elements.	(6 Marks)
f)	To construct a system model, the engineers should consider a number of system	
	modeling restraining factors. Discuss three of such factors.	(6 Marks)
g)	Discuss Five areas of potential software engineering applications.	(10 Marks)

Section 2: Answer any two Questions

Question 2 (15 Marks)

- a) What is RAD (Rapid Application Development)? (1 Marks)
- b) Discuss five RAD model phases (10 Marks)
- c) Highlight Four Advantages of Using Spiral Model. (4 Marks)

Question 3 (15 Marks)

- a) Highlight three Disadvantages of Using Spiral Model (3 Marks)
- b) Explain Five Traceability Tables (10 Marks)
- c) Discuss two software requirements views (2 Marks)

Question4 (15 Marks)

- (a) Discuss the process framework applicable to the majority of software engineering projects. (10 Marks)
- (b) Explain the following software requirements engineering tasks (5 marks)
 - i. Inception
 - ii. Elicitation
 - iii. Elaboration
 - iv. Negotiation
 - v. Requirements