

FACULTY OF SCIENCE

APK ACADEMY FOR INFORMATION TECHNOLOGY

MODULE IT00217/IT28X17

INFORMATION SECURITY RISK ANALYSIS

CAMPUS APK

EXAM JANUARY 2017

SUPPLEMENTAL

DATE January 2017 SESSION: 08:00 – 10:00

ASSESSOR(S) PROF CP LOUWRENS

INTERNAL MODERATOR

EXTERNAL MODERATOR PROF R PIDERIT (UFH)

DURATION 2 HOURS MARKS 120

NUMBER OF PAGES: 3 PAGES

INSTRUCTIONS: ANSWER ALL THE QUESTIONS

QUESTION 1

a)	Peltier	[3]
b)	ISO 3100	[3]

QUESTION 2

Draw a diagram illustrating Risk Management during the System Development Life Cycle Phases. [20]

QUESTION 3

Define the following terms:

a) Probability	[2]
b) Impact	[2]
c) Vulnerability	[2]

QUESTION 4

The Factor Analysis of Information Risk (FAIR) comprises 10 steps in four stages. Name and describe the four stages and the steps within each stage.

[14]

QUESTION 5

You have been tasked to arrange a Pre-FRAAP meeting. Prepare a Pre-FRAAP meeting checklist for use **during** the meeting. [14]

QUESTION 6

Draw up a FRAAP Session Agenda and indicate who would be responsible for each agenda point. [10]

QUESTION 7

Briefly discuss the difference between Risk Analysis or Project Impact Analysis (PIA) and Risk Assessment. [8]

QUESTION 8

Copy and complete the following Pre-Screening Results Matrix (numerical values) and indicate the colour of each cell (Red/Yellow/Green) [12]

Disclosure	Criticality						
	1	2	3	4	5		
5							
4							
3							
2							
1							

QUESTION 9

Illustrate the **Disaster Recovery Time Line** by means of a diagram. [8]

QUESTION 10

List the six guidelines for effective policy. [6]

QUESTION 11

In your own words describe how you would go about selecting cost-effective countermeasures/ controls to address a specific risk. Which factors will you consider and how can you prove the countermeasure is cost-effective? [10]

QUESTION 12

Name and briefly discuss "Candidate Control Actions" as part of the Security Engineering Risk Analysis (SERA) Framework. [6]

Total: 120 marks