



## FACULTY OF MANAGEMENT JUNE EXAMINATION

### DEPARTMENT OF APPLIED INFORMATION SYSTEMS

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<b><u>MODULE</u></b>	:	INFORMATION TECHNOLOGY MANAGEMENT 3A
<b><u>CODE</u></b>	:	ITB3A01
<b><u>DATE</u></b>	:	6 JUNE 2017
<b><u>DURATION</u></b>	:	3 HOURS
<b><u>TIME</u></b>	:	12H30
<b><u>TOTAL MARKS</u></b>	:	100

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<b><u>EXAMINER</u></b>	:	MR W ERASMUS
<b><u>(EXTERNAL) MODERATOR</u></b>	:	PROF A GERBER
<b><u>NUMBER OF PAGES</u></b>	:	2 PAGES

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#### **INSTRUCTIONS TO CANDIDATES:**

- Question papers must be handed in.
- This is an **open book** assessment.
- Read the questions carefully and answer only what is asked.
- Number your answers clearly.
- Write neatly and legibly.
- Answer all the questions.
- Structure your answers by using appropriate headings and sub-headings.
- The general University of Johannesburg policies, procedures, and rules pertaining to written assessments apply to this assessment.

... Continue ...

Figure 1 applies to the examination paper and all questions should be based on Figure 1. It is a library management system which allows the library to receive books and lend it to students.



**Figure 1. Library Management System**

### QUESTION 1

Provide four (4) high-level requirements for each of the six (6) sub-systems as portrayed in Figure 1.

[24]

### QUESTION 2

Choose any sub-system and its related four (4) high-level requirements. For each of these high-level requirements, provide two (2) *Functional Requirements* and two (2) *Non-functional Requirements*. Make use of a table.

[16]

### QUESTION 3

Create a *Requirements Management Plan* for the identified *Functional and Non-functional Requirements* as per Question 2.

[10]

### QUESTION 4

Create a *Final Product Design* for the identified two *Functional* and two *Non-functional Requirements* as per Question 2.

[25]

### QUESTION 5

Using the *Final Product Design* (your answer in Question 4) as well as the detailed *Functional and Non-functional Requirements*, create a *Work Break Down Structure (WBS)*.

[25]

[100]

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