FACULTY OF MANAGEMENT SUPPLEMENTARY EXAMINATION

DEPARTMENT OF APPLIED INFORMATION SYSTEMS

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MODULE	:	**DEVELOPMENT SOFTWARE 3B**
CODE	:	**DSW31B1**
DATE	:	SUPPLEMENTARY EXAMINATION
DURATION	:	2 HOURS
TIME	:	08H30
TOTAL MARKS	:	100

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EXAMINER	:	MR W ERASMUS
(EXTERNAL) MODERATOR(S):		MR J MENTZ
NUMBER OF PAGES	:	3 PAGES

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INSTRUCTIONS TO CANDIDATES:

- This is a closed book assessment.
- Read the questions carefully and answer only what is asked.
- Number your answers clearly.
- Write neatly and legibly
- 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.

This paper consists of Section A and Section B. Please answer all the questions.

SECTION A

QUESTION 1

The Systems Development Life Cycle consists of various steps which ensure that a well designed product. Answer the following questions with regard to the software solution your group produced.

1.1.   Write down your group name   (1)

1.2.   Provide your Systems Request. Supplement your answer by explaining where your Systems Request originated.   (4)

1.3.   Discuss how your group went about identifying the nature and scope of the business opportunity.   (12)

QUESTION 2

The User Interface is a major component of a well designed software solution.

2.1.   List the types of users that will use your system. Supplement your answer by explaining the roles for each user.

(4)

2.2.   Draw an example record adding window from your system.   (4)

2.3.   Discuss reasons for using each component (e.g. buttons) you have placed on your Window.   (8)

2.4.   When designing a form it is important to know the users' **"needs"**. Discuss the process you would follow to produce the correct form for the user, based upon those needs.   (4)

QUESTION 3

The procedure for Software Testing is quite complex.

3.1.   Discuss the responsibilities for each group member with regard to Software Testing. Supplement your answer by providing the process your group followed.

(10)

3.2.   How would you go about testing a specific data entry Window? Provide an example bug report to supplement your answer.   (10)

QUESTION 4

Well-designed Software Solutions must be well documented.

4.1.   Discuss your group member's responsibilities **and** interactions between members. Supplement your answer by referring to your project charter.   (10)

4.2.   Explain the strategy you would follow to enable the quick transition from the old system to the new system. NOTE: Refer to documentation that you would provide during and/or after implementation.   (6)

QUESTION 5

5.1 Use cases are vital with regard to software development. Provide a well formed example **use case** from **your project**.   (20)

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SECTION B

QUESTION 1

Application development in Industry is invariably produced in a group. It is important that the group members work well together for a high quality product to be produced.

Copy and complete the following table: (Include yourself on this table):

Group member (Student number / Full name)	Key responsibility	Contribution (Use rating below)	Other notes

Note: You must rate yourself as well.

Rating: 0 – Did not contribute at all.
               1 – Performed poorly.
               2 – Performed adequately.
               3 – Performed excellently.

(7)

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