

FACULTY OF MANAGEMENT NOVEMBER 2014 EXAMINATION

DEPARTMENT OF APPLIED INFORMATION SYSTEMS

MODULE : INFORMATION SYSTEMS 2B

CODE : ILS22B3 / IFS02B1

DATE : 18 NOV 2014

DURATION : 2 HOURS

<u>TIME</u> : 08.30 AM

TOTAL MARKS : 100

EXAMINER : Dr VENU KUTHADI

MODERATOR : Ms SREEDEVI.V

NUMBER OF PAGES : 2 PAGES

INSTRUCTIONS TO CANDIDATES:

- Read the questions carefully and answer ALL questions
- This is a closed book assessment
- Number your answers clearly
- Write neatly and legibly
- The general University of Johannesburg policies, procedures and rules pertaining to written assessments apply to this assessment.

ANSWER THE FOLLOWING QUESTIONS

1	List and Discuss the Five Transaction Properties.	[5]
2	What is a deadlock and how can it be solved? Discuss several avoidance strategies.	deadlock [5]
3	Discuss the different phases of database Design with neat Diag	ram. [10].
4	Define Data Mining? Discuss different phases involved during dark process with neat diagram.	ata mining
5	Define concurrency control and Explain the problems of simultaneous execution of transaction over a shared database with suitable example. [10]	
6	Illustrate the Basic DBMs architecture with neat diagram.	[10]
7	Illustrate the ADO/OLE-DB architecture showing how it interacts ODBC and native connectivity options.	s with [10]
8	Illustrate different data fragment strategies with suitable example	e. [10]
9	Demonstrate the performance improving techniques used to opt warehouse design for the star schema.	imize data [10]
10	Explain DBMs query processing with neat diagram.	[10]
11	Define the following terms a) Heap files organization b) Sequential file organization c) B Trees d) Bitmap indexes e) Hashed File organization	[10]