Tutorial Letter 204/1/2018

Object-Oriented Analysis

ICT2622

Semester 1

School of Computing

IMPORTANT INFORMATION

Please register on myUnisa, activate your myLife e-mail addresses and make sure that you have regular access to the myUnisa module website, ICT2622-18-S1, as well as your group website.

Note: This is an online module and therefore it is available on myUnisa. However, in order to support you in your learning process, you will also receive some study material in printed format.

BARCODE

CONTENTS

Page

ASSIGNMENT 3 SOLUTIONS 3

ASSIGNMENT 3 SOLUTIONS

Assignment Administration

Due Date	Refer to the class schedule on *my*Unisa
Submission Procedure	Electronically via *my*Unisa
Number of Questions	15
Total Marks	15
Contribution to Year Mark	30%
Unique Assignment Number	810810

Assignment Solutions (Summary)

Question	**Answer**	**Book Reference [***Page Number(s)***]**
1	1	263
2	2	271
3	1	278
4	2	299
5	1	301
6	3	305
7	3	317
8	2	372
9	4	377
10	1	376
11	4	390
12	2	399, 403, 410
13	4	399, 400
14	2	400
15	3	427

Assignment Questions

Question 1

In a relational database, a row can be referred to as a(n) _____.

1) tuple
2) relation
3) attribute
4) field

Question 2

_____ is a consistent relational database state in which every foreign key value also exists as a primary key value.

1) First normal form (1NF)
2) Referential integrity
3) Function dependency
4) Database synchronization

Question 3

A field in a relational table called “address” would be an example of what?

1) complex data type
2) primitive data type
3) candidate data type
4) compound data type

Question 4

An approach to the SDLC where the phases overlap is often referred to as the _____ approach.

1) waterfall
2) modified waterfall
3) modified predictive
4) spiral

Question 5

A(n) _____ provides guidelines to follow for completing every activity in systems development, including specific models, tools, and techniques.

1) system development methodology
2) systems development life cycle
3) object-oriented analysis
4) predictive approach

Question 6

Which of the following is NOT an Agile Modeling principle?

1) Minimize your modeling activity
2) Know your models and how to use them
3) Maintain core models to verify past decisions
4) Focus on content rather than representation

Question 7

Scrum focuses primarily on the _____ level.

1) manager
2) software
3) team
4) sprint

Question 8

Which diagram is directly used to identify methods and write programming code for object-oriented systems?

1) State-machine diagram
2) Design class diagram
3) Sequence diagram
4) Package diagram

Question 9

A(n) _____ class acts as a switchboard between the view layer and the domain layer.

1) entity
2) boundary
3) persistent
4) controller

Question 10

UML provides a technique to extend the standard UML notation to include new symbols. This technique is called _____.

1) stereotyping
2) externalizing
3) prototyping
4) extending

Question 11

A Web based application that integrates HTML code with business logic is said to be in violation of what design principle?

1) Coupling
2) Indirection
3) Object responsibility
4) Protection from variations

Question 12

Developing a(n) _____ diagram is a multistep process of determining which objects work together and how they work together.

1) package
2) interaction
3) design class
4) state machine

Question 13

Which of the following is an example of an interaction diagram?

1) Package diagram
2) Data access diagram
3) Design class diagram
4) Communication diagram

Question 14

The realization of a use case–determining what objects collaborate by sending messages to each other to carry out the use case–is done through the development of a(n) _____ diagram.

1) package
2) interaction
3) design class
4) system sequence

Question 15

View layer classes should do all of the following EXCEPT _____.

1) display data fields
2) capture clicks and data entries
3) create problem domain classes
4) start and shut down the system