



ELIZADE UNIVERSITY

ILARA-MOKIN

FACULTY: BASIC AND APPLIED SCIENCES

DEPARTMENT: MATHEMATICS AND COMPUTER SCIENCE

1st SEMESTER EXAMINATION

2017 / 2018 ACADEMIC SESSION

COURSE CODE: CSC 303

COURSE TITLE: Object Oriented Programming

COURSE LEADER: Dr. E. Ayetiran

DURATION: 2 Hours

HOD's SIGNATURE

INSTRUCTION:

Candidates should answer any THREE Questions.

Students are warned that possession of any unauthorized materials in an examination is a serious offence.

1. (a) In the context of OOP, differentiate between an object and a class
- (b) Write a program with a class named StudentGrade to accept an integer between 0 and 100 as students' score in a course and display the appropriate student's grade using the following grading criteria:

Score	Grade
Above 100	Error
Below 0	Error
70 - 100	A
60 - 69	B
50 - 59	C
45 - 49	D
0 - 44	F

- (c) Briefly explain the Object-Oriented Programming paradigm
2. (a) Briefly discuss two methods of parameter passing in java
- (b) Write complete java programs to illustrate each of the methods in 2(a) above.
- (c) State and explain 3 possible members of a class constructor
3. (a) In the context of OOP, explain the term inheritance.
- (b) Write a program to illustrate the principle of inheritance.
- (c) Compare and contrast OOP principles of inheritance and polymorphism
4. (a) Write a complete java program to illustrate encapsulation in java
- (b) Explain each line of your program in 4(a) above.
- (c) Juxtapose the behaviour of access modifiers that can appear in the declaration of classes, fields, constructors, local variables and methods
5. (a) Explain the following:
 - (i) Method overloading (ii) Method overriding
- (b) State and illustrate with a program one for each, two ways of method overloading
- (c) State 5 rules for overriding a method in java