



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING DEGREE PROGRAMMES

FINAL ASSESSMENT MARCH 2020 SEMESTER

MODULE NAME : ITS 60804
MODULE CODE : OBJECT ORIENTED PROGRAMMING
EXAM DURATION : 72 HOURS
DATE : 29th JUNE 2020
SUBMISSION DEADLINE: Anytime before the 27th of July 2020, 23:59,
Malaysian Time Zone

This paper consists of Four (4) pages, inclusive of this page.

Instruction to Candidates:

1. Answer ALL questions
2. This is an open book examination, student is not allowed to transcribe directly (cut and paste) any material from another source into their submission.
3. The Turnitin similarity for this module is 20% overall and lesser than 1% from a single source excluding program source codes. The number of Turnitin submission will be a maximum of 2 (twice only).
4. Severe disciplinary action will be taken against those caught violating assessment rules such as colluding, plagiarizing or transcribing.
5. The final assessment answers handed in should be within 5 -12 pages in total for non-programming modules, with a spacing of 1.5 and a font of 12pt Times New Roman.
6. Submission link is [here](#). (Do not submit the question paper)
7. The breakdown of exam questions by Module Learning Outcome(s) and its associate weightage is as follows:

MLO	Section(s)/ Question(s)	Marks
MLO1	Part 1	/ 40
MLO2	Part 2	/ 60
	TOTAL	/ 100

8. Start each answer on a separate page.
9. Complete the front cover of the examination answer booklet and question paper. Write the question numbers attempted on the front cover of the answer booklet.

Module Learning Outcome

On completion of this alternative assessment, students should be able to:

1. Describe the basic concepts of programming.
2. Apply the basic concepts and problem-solving skills to evaluate and solve topic specific problem and programs

Alternative Assessment Description

Choose 1 of the theme below and develop an appropriate console application using Java. Your application should have at least 5 features or functions. Listed below are the project themes and suggested projects for each theme. You may propose your own system as well under the given theme.

1. Theme 1: Smart Education
 - a. Student Management System
 - b. Library Management System
2. Theme 2: Smart Reservation
 - a. Hotel management system
 - b. Ticket booking system
3. Theme 2: Online shop
 - a. Food and beverages
 - b. Groceries

Alternative Assessment Tasks

Develop a java console for each topic for the system under the theme of your choice.

Following are requirements that must be taken into consideration:

1. Describe the java concept that you choose to solve the problem
2. Write a java program to apply the basic concepts and shows the problem-solving skills to solve a problem on the chosen topic

Assessment Criteria

Alternative Assessment contributes 30% of the overall marks. Your efforts will be assessed based on the following criteria:

Element	Outstanding: Very clear and well written (9-10)	Mastering: Clear and mostly complete (7-8)	Developing: Adequate but not thorough (5-6)	Beginning: Missing vital information or not provided (0-4)
MLO 1 1. Data Type (10 marks) 2. Operator (10 marks) 3. Condition (10 marks) 4. Looping (10 marks)				
MLO 2 1. Operator (10 marks) 2. Condition (10 marks) 3. Looping (10 marks) 4. Arrays (10 marks) 5. Method (10 marks) 6. Inheritance (10 marks)				
Total *Total marks is 100, but will scale down to 30.				

Submission

Softcopy Report

1. Source codes.
2. The document should be neatly organized with cover page and table of contents included. The document should include screen shots of your program, testing and verification (outcome).
3. Softcopy submission via TIMES in folder: Alternative Assessment (Due: 27th July 2020 23:59 Malaysian Time Zone).