

SOUTHWESTERN UNIVERSITY NIGERIA

KM 20, SAGAMU-BENIN EXPRESSWAY, OKUN OWA, IJEBU-ODE, OGUN STATE.

FACULTY OF PURE & APPLIED SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

HND TO BSC CONVERSION PROGRAMME

2018/2019 FIRST SEMESTER EXAMINATION

COURSE CODE:CSC 301

COURSE TITLE: Structured Programming

INSTRUCTION: Answer question 1 and any other three (3). **TIME:** 2hrs

1. (a) Discuss what Object Oriented Programming is and state five of its advantages in programming.
- (b) Discuss what Modular Programming is and state five of its advantages in programming
- (c) Discuss the following Object Oriented Programming concepts: Object, Class, Instantiation of a class, Inheritance, Polymorphism, Constructor, Destructor.

2. (a) Outline five reasons given by the proponents of Structured Programming as to why it is the only programming structure approach that should be rigidly adhered to.
- (b) Outline five properties of a Well-Structured Program

3. (a) What are the Programming Language Translators?
- (b) Discuss the following Programming Language Translator tools: Compiler, Interpreter, Assembler, Linker.

4. (a) Discuss the Switch Multiple-Selection Structure with appropriate pseudocode and flow diagram.

- (b) State five Rules to be followed for proper implementation of the SWITCH Statements

- (c) Using the SWITCH Multiple-Selection Structure, implement the following decision table, that classifies a ship depending on its class ID.

Class	ID	Ship	Class
B	or	b	BattleShip
C	or	c	Crusier
D	or	d	Destroyer
F	or	f	Frigate

5. (a) Design the Pseudocode and Flow Chart for the question below:

- (b) Write a program that determines the service charge for a bank account based on the account balance. When the account balance is less thanb N1000, then there is a fee of N5 on the balance and a message is printed informing us about it. If the balance