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NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Plot 91, Cadastral Zone,

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FACULTY OF SCIENCE

CIT 383 – Introduction to Object-OrientedProgramming - (2 credits) – 2Hrs

Instruction: Answer Question 1 (25 marks) and any other three (15 marks each)

- 1 (a)(i). Mention the five popular Object Oriented Languages. (5 marks)
- 1(a)(ii) With respect to object-oriented programming, explain the term "downcasting" (5 marks)
- 1(b) Describe the term Recursive Operator (5 marks)
- 1(c)Write the following acronyms in full (10 marks)
 - (i) JVM
 - (ii) DLSs
 - (iii) WWW
 - (iv) OOP
 - (v) OS
 - (vi) GB
 - (vii) FTP
 - (viii) CRT
 - (ix) ADT
 - (x) URL

(1 mark each)

- 2(a) Describe the following terms: (6 marks)
- (i) Local Variables and Instance Variables
- (ii) Set and Get Methods
- 2(b) List five main features of Object Oriented Programming(5 marks)

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- 3(a) Differentiate between static field and an instance variable (5 marks)
- 3(b) Explain the term "Object Oriented Programming Language" (5 marks)
- 3(c) Describe Overloaded Method and Overridden Method (5 marks)
- 4(a) What is Inheritance in Object–Oriented Programming Language? (5 marks)
- 4(b) Evaluate the value of x after each of the following statement is executed (5 marks)

```
i. x=Math.abs(-7.5);
ii. x=Math.floor(-8.7);
iii. x=Math.ceil(6.3);
iv. x=Math.floor(4.1);
v. x=Math.ceil(-2.5);
(1 mark each)
```

- 4(c) Outline five examples of methods (5 marks)
- 5(a) Mention two advantages of software reusability (5 marks)
- 5(b) Distinguish between a Class and an Object (5 marks)
- 5(c) Explain the term "downcasting" (5 marks)
- 6(a) Describe Operator Overloading (5 marks)
- 6(b) Explain the term "polymorphism" and mention basic types (5 marks)
- 6(c) Discuss Abstract Data Types and state two types (5 marks)