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NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi, Abuja Faculty of Science APRIL, 2019 EXAMINATIONS

Course: CIT 734 – OBJECT ORIENTED TECHNOLOGY

Credit Unit: 2

Time Allowed: 2 Hours

Instructions: Answer Question 1 and four (3) other questions

Statement

WHILE- loop

FOR-loop

(ii)

(iii)

(i) (ii)

instructions: Answer Question 1 and four (3) other questions			
Q1	a. Explain the term Object Oriented Programmingb. Write short notes on the following terms?	(4 marks)	
	(i) Class	(4 marks)	
	(ii) Method	(4 marks)	
	(iii) Object	(4 marks)	
	c. Mention four characteristics of Java programming language	(4 marks)	
	d. Itemise the phases of a Software Development Life Cycle (SDLC).	(5 marks)	
Q2	a. Explain the following terms:		
	(i) Encapsulation	(3 marks)	
	(ii) Polymorphism	(3 marks)	
	(iii) Inheritance	(3 marks)	
	b. Describe, with the aid of labeled diagrams, the following relationship types in Object		
	Oriented Programming: (i) "a-kind of" (ii) "a part-of" (iii) "has-a".	(6 marks)	
Q3.	a. Differentiate between unstructured programming, procedural programming and		
	modular programming	(6 marks)	
	b. Write short notes on the following terms as used in Programming		
	(i) Expression	(2 marks)	
	(11)	/ - 1 \	

c. Write the syntax structure OR a sample code for the following in C++

(2 marks)

(2 marks)

(1 mark)

(1 mark)

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(1 mark)
              (iii)
                      IF Statement
Q4.
       a. List six (6) important quality metrics of a software product
                                                                          (6 marks)
       b. The documentation of the software product is an important task in software
          development. Explain the three most important baseline specifications. (9 marks)
Q5.
      a. What do you understand by the following programming terms:
              (i) Variable
                                                                                 (3 marks)
              (ii) Scope
                                                                                 (3 marks)
              (iii) Data type
                                                                                 (3 marks)
       b. What is the output of the Java application code below:
                                                                          (2 marks)
              classHelloWorldApp {
              public static void main(String[] args) { System. out. Println ("Hello World!");
       c. Mention four (4) software engineering principles
                                                                                 (4 marks)
```