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NATIONAL OPEN UNIVERSITY OF NIGERIA

PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI, ABUJA

FACULTY OF SCIENCES

2021 2 EXAMINATION 45678

COURSE CODE: CIT 467

COURSE TITLE: VISUAL PROGRAMMING & APPLICATIONS

CREDIT: 3 UNITS

TIME ALLOWED: 2HOURS 30MINUTES

INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER FOUR (4)

Question 1 (22 marks) Compulsory

(a) Give a formal description of	Visual Programming	Language (VPL) a	ccording to Totora (1990)
(2mks)			

(ZIIIKS)	
(b) Give four distinct ways of defining Visual Programming Language	(4mks)
(c) Distinguish between absolute and relative URL	(3mks)
(d) How does HTML works	(2mks)
(d) Give a brief description of Markup tags and how they are used.	(3mks)
(e) In a tabular form distinguish clearly between class and object	(4mks)
(f) Enumerate four key principles of Java that makes it to be popular.	(4mks)

Question 2 (12 marks)

- (a) Classify VPL according to the type and extent of visual expression used. (3mks)
- (b) How is VPL created by programmers and subsequently compiled? (3mks)
- (c) Distinguish between physical and logical markup tags, hence state six examples each (6mks)

Question 3 (12 marks)

(a) Describe the body section of HTML	(2mks)
(b) Describe in full the various sections of HTML document	(4mks)
(c) Write a HTML code to give the output below	(6mks)

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My grocery list

- carrot
- mango
- potato
- orange

My sport list

- 1. carrot
- 2. mango
- 3. potato
- 4. orange

Question 4 (12 marks)

(a) Distinguish between process icons and object icons in VPL

(3mks)

(b) According to Chang (1990), the syntactic analysis of visual sentences is based upon a number of approaches, make a partial listing of four of such approaches.

(2mks)

(c) Describe in details, the interconnection between object, methods and class

(7mks)

Question 5 (12 marks)

Describe the following concepts in Object Oriented Programming:

(12mks)

- i. Genericity
- ii. Polymorphism
- iii. Multiple inheritance
- iv. Persistence

Question 6 (12 marks)

(a) Outline any six of the primitive data types supported by Java (6mks)

(b) Write a Java program named if-else Demo which assigns a grade based on the value of a test score: an A for a score of 90% or above, a B for a score of 80% or above, a C for a score of 70% or above, a D for a score of 60% or above and F a score of less than 60%.

(6mks)