

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja**

**FACULTY OF SCIENCES**

**April 2019 Examinations**

**COURSE CODE: CIT467**

**COURSE TITLE: Visual Programming**

**CREDIT: 3 Units**

**TIME ALLOWED: 2½ Hours**

**INSTRUCTION: Answer Question ONE (1) and any other FOUR (4) Questions**

1a. What is Visual Programming Language (VPL)? ***(4 marks)***

b. List the classifications of Visual Programming Languages ***(4 marks)***

c. Distinguish between Visual Programming language and Non-visual programming language ***(4 marks)***

d. What do you understand by Object Oriented Programming (OOP) ?. ***(4 marks)***

e. List three (3) advantages of OOP. ***(3 marks)***

f. List three (3) limitations of OOP ***(3 marks)***

**(Total = 22 marks)**

2(a) Define Icon. ***(2 marks)***

b. Briefly describe formal specification of VPLs. ***(4 marks)***

c. Compare and Contrast Picture-processing grammars and Graph grammars ***(4 marks)***

d. What is Procedural Abstracrion? ***(2 marks)***

3a. Describe Form/3 programming Language ***(4 marks)***

b. Compare and Contrast VIPR and C++ ***(6 marks)***

c. Enumerate the benefits of Cube over non visual programming Language ***(2 marks)***

4a. Explain the term WWW ***(4 marks)***

b. What is the work of Hypertext Transfer Protocol (HTTP)? ***(5 marks)***

c. Give three examples of domain names? ***(3 marks)***

5a. Enumerate five (5) uses of Markup tags ***(5 marks)***

b. List 5 markup tags you know ***(5 marks)***

c. Enumerate four (4) requirements of using OOP approach. ***(2 marks)***

6a. Define hypertext link ***(4 marks)***

b. What is Java programming language. ***(4 marks)***

c. Give four (4) reasons why programmers prefer Java**. *(2 marks)***

d. Give the four (4) major versions of Java. ***(2 marks)***