NATIONAL OPEN UNIVERSITY OF NIGERIA, PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA FACULTY OF SCIENCES DEPARTMENT OF SCIENCE 2024 1 EXAMINATION.

Course Code: CIT 703

Course Title: Information Technology and Software Development

Time Allowed: 21/2 hours

Credit: 3 Units

Instruction: Attempt four (4) questions. Question one is compulsory and any other three

(3) questions.

Question One

la. Differentiate between executive module test and executive integration test	3marks
1b. Outlines five (5) characteristics of evolution of large software systems	5marks
1c. Describe Software Automation	3marks.
1d. State the five (5) FURPS+ model for Categories of Requirement Engineering	g 5marks
le. Outlines five (5) factors in Requirements Engineering	5marks
1f. List four (4) UML behavioral diagrams	4marks

Ouestion Two

2a. Outlines five (5) some version or subset activities of a classic software life cycle models

5marks.

2b. What is a software process model?

5marks

2c. State five (5) types of Cohesion in Software Engineering

5marks.

2d. Who is a software project manager? 2 marks.

Question Three

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3a. List and explain five	(5) reasons why we need softwa	re engineering 5 marks

3b. Outlines five (5) Garvin dimensions of quality in software development
3c. State and explain five properties of Software Requirement Specification
5 marks.
5 marks.

Question Four

4a. What is a software life cycle model? 5 marks.

4b. With the aid of diagram using Waterfall Model briefly discuss the Software Development Activities

10 marks

Question Five

5a. Describe the term software maintenance	4 marks
5b. State and explain four (4) types of software maintenance	8 marks
5c. Who is a system analyst?	3 marks

Question Six

6a. Describe software process model 2 marks.

6b. Outlines (4) fundamental activities that are common to all software processes 8 marks

6c. Identify five (5) commonly used software process models 5 marks.