

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

Question One

1d. State the five (5) FURPS + model for Categories of Requirement Engineering 1e. Outlines five (5) factors in Requirements Engineering 1f. List four (4) LIMI, behavioral diagrams	5marks
11. List four (4) UML behavioral diagrams	4mark

Question Two

2a. Outlines five (5) some version or subset activitie	s of a classic software life cycle models
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2b.	What is	a	software	process	model?	
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5marks. 5marks

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

5marks.

10 marks

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

Question Three

3a. List and explain five (5) reasons why we need software an give an in-	
3a. List and explain five (5) reasons why we need software engineering	5 marks

2h Outlines five (5) Committee will we need software engineering	5 marks
3b. Outlines five (5) Garvin dimensions of quality in software development	nt 5 marks.
3c. State and explain five properties of Software Requirement Specification	on 5 marks.

Question Four

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4a. What is a software life cycle model?	
tal What is a software life cycle illodel?	5 moule
4b With the oil 64:	5 marks

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

Ouestion Five

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

Question Six

6a. Describe software process model	뭐장하다면 하는 가나면 남아!
6b. Outlines (4) fundamental activities that are common to all	2 marks.
ob. Outlines (4) fundamental activities that are common to all	software processes & 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.