



**NATIONAL OPEN UNIVERSITY OF NIGERIA,
UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY,
JABI, ABUJA
FACULTY OF SCIENCE
2022_1 EXAMINATION**

COURSE CODE: CIT 333

COURSE TITLE: Software Engineering 1

CREDIT UNIT: 2 Credit Unit

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer **question 1** (30 marks) any other **two** questions (20 marks) Each.

1a. What are the Software Quality Assurance activities during the architectural (preliminary) design phase? **(6 marks)**

1b. Clearly explain any five (5) sub-disciplines of Software engineering **(10 marks)**

1c. Explain the four (4) software engineering goals **(4 marks)**

1d. Outline any six(6) functions of software engineer **(6 marks)**

1e. As a software engineer, explain alpha and beta testing **(4 marks)**

[TOTAL 30]

2a. Mention three (3) advantages and two (2) disadvantages of incremental model **(8 marks)**

2b. Explain the four(4) methods used to test non-functional aspects of a software **(8 marks)**

2c. What do you understand by software crisis **(4 marks)**

[TOTAL 20]

3a. Outline the seven (7) merits of top-down programming **(7 marks)**

3b. Mention any four (4) of the advantages of waterfall life cycle **(8 marks)**

3c. What are the Software Quality Assurance activities during the during the implementation phase? **(5 marks)**

[TOTAL 20]

4a. What are the Software Quality Assurance activities during the integration and test phase?

(5 marks)

4b. Clearly elaborate on critical error and non-critical error **(5 marks)**

4c. List any two (2) tools program software offers to assist in writing programs. **(4 marks)**

4d. What do you understand by critical error and non-critical error? **(6 marks)**

[TOTAL 20]

5a. Outline the six (6) disadvantages of waterfall life cycle **(12 marks)**

5b. What are the problems faced in requirements elicitation? **(4 marks)**

5c. Outline with explanation the two categories of requirements **(4 marks)**

[TOTAL 20]