

NATIONAL OPEN UNIVERSITY OF NIGERIA

PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA FACULTY OF SCIENCES DEPARTMENT OF COMPUTER SCIENCE

2022_2 EXAMINATION

COURSE CODE:CIT 333COURSE TITLE:Software EngineeringCREDIT UNIT:2TIME ALLOWED:2HRSINSTRUCTION:ANSWER QUESTION ONE (1) AND ANY OTHER THREE

Question 1

1(a)

- (i) Define programming software and application software (3 marks)
- (ii) Give five (5) instances of (i) above (10 marks)

1(b)

- (i) Give a brief summary of the goals of software engineering (8 marks)
- (ii) Briefly highlight the origin of software engineering (3 marks)
- (iii) Evaluate four (4) areas where evolution of software engineering is notable (6 marks)

Question 2

- (i) What are the principles for using Modular Design? (8 marks)
- (ii) State five (5) major tasks involve in Implementation of a system (5 *marks*)
- (iii) According to the Capability Maturity Model (CMMI-SW v1.1), define verification (*2 marks*)
- (iv) Software Crisis manifest itself in various forms, state five (5) of these forms (5 marks)

Question 3

- (a) State the concept of Software Engineering (2 marks)
- (b) Highlight and evaluate five (5) sub-disciplines in Software Engineering (12 marks)

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software system that satisfies the major goals. Give a concise explanation of these principles (6 marks)

of the system in order to a

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Question 4

- (a) What are CASE Tools and CASE Environment? (2 marks)
- (b) Briefly evaluate four (4) classification of CASE environment (12 marks)
- (c) A Test Engineer uses software testing methods to describe his opinion when designing test cases. Briefly analyse two (2) of these testing methods (6 marks)

Question 5

(a) There are phase-specific Software Quality Assurance activities that should be conducted during the Software Acquisition Life Cycle, evaluate five (5) out of the eight phases (11¹/₂ marks)

(b)

- (i) Name four (4) types of white box testing we have in software testing methods (4 marks)
- (ii) Program testing and fault detection can be aided significantly by testing tools and debuggers. Mention three of these tools (4¹/₂ marks)

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