



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
SEPTEMBER, 2020_1 EXAMINATIONS

COURSE CODE: CIT432

COURSE TITLE: SOFTWARE ENGINEERING II

CREDIT: 3 Units

TIME ALLOWED: 2:30 HOURS

INSTRUCTION: ANSWER QUESTION AND ANY OTHER FOUR (4) QUESTIONS.

- 1
 - (a) A transcript software application for higher institutions was developed by XZY company Limited, upon the execution, it was discovered that the produced failed at certain point of execution. Based on the Somerville suggestions, critically analyze well-engineered?
(4 marks)
 - (b) Discuss the five functions of an operating system
(4 marks)
 - (c) Electronic spreadsheets computerize the traditional layout of any tabulation or complex calculation done with pencil, paper and calculator, illustrates the concept of electronic spreadsheet applications
(6 marks)
 - (d) The idea of V-Model is an extension of the waterfall model that is based on the association of a testing phase for each corresponding development stage. Summarizes the concept the V – model of the software development
(5 marks)
 - (e) Compares the three advantages and three disadvantages of the waterfall model?
(3 marks)

- 2
 - (a) Requirement phase and planning phase are among the critical phases of water fall model, Briefly summarizes these two phases
(9 marks)
 - (b) With aid of an example, illustrate when to use the Build-and-Fix Model
(3 marks)

- 3
 - (a) Interviews are used to collect data from a small group of subjects on a broad range of Topics, analyze the meaning of interview method of data collection and outline its five advantages
(9 marks)
 - (b) What are three features on input form?
(3 marks)

- 4
 - (a) Desktop publishing software (or DTP software) is software used in the process of creating editorial projects. The primary use of DTP is to lay out texts, images and graphics on a page and easily arrange these elements to create the preferred document. Summarizes the development of the Desktop Publishing Software?
(7 marks)
 - (b) Compares the advantages and disadvantages of Spiral Model?
(5 marks)

- 5
 - (a) There are a number of promising avenues for further research and development with

Software process models. Outline the six opportunities areas and sample direction for further exploration in software development? **(9 marks)**

- (c) The purpose of software maintenance is to modify and update software application after delivery to correct faults and to improve performance. Describes the concept of software development **(3 marks)**
- 6 (a) Requirements analysis, also called requirements engineering, is the process of Determining user expectations for a new or modified product. Summarizes idea of the requirement analysis of the software project management **(6 marks)**
- (b) What is meant by the Need for a Standard? **(6 marks)**