



**NATIONAL OPEN UNIVERSITY OF  
NIGERIA,  
UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY,  
JABI, ABUJA  
FACULTY OF SCIENCE  
JULY 2017 EXAMINATION**

**COURSE CODE:** CIT 432

**COURSE TITLE:** Software Engineering 2

**TIME ALLOWED:** 3 Hours

**INSTRUCTION:** Answer question 1 and any other four (4) questions.

1a. Explain the four (4) characteristics of a software (8 marks)

1b. As a software engineer what four (4) reasons would you outline for articulating software life cycle model (4 marks)

1c. Write a short note on Earned Value (EV) Management and also complete the meaning of the following acronyms;

- BCWS
- BCWP
- ACWP
- BAC

(6 marks)

1d. Explain where and when to apply Milestone Trend Analysis (2 marks)

1e. Outline two(2) advantages of Milestone Trend Analysis (2 marks)

**[TOTAL = 22]**

2c. Explain two (2) types of feasibility study (4 marks)

2b. write the four (4) reasons for software errors (4 marks)

2c. Outline four (4) suggestions of a well-engineered software (4 marks)

- 3a. Present a diagram showing the phases of Build-and-fix model (4 marks)
- 3b. Outline two (2) advantages of spiral model (2 marks)
- 3c. Outline six(6) guidelines that help develop observation skills (6 marks)
- 4a. Mention two (2) advantages and two (2) disadvantages of rapid prototyping (4 marks)
- 4b. Explain the four(4) types of conversion (8 marks)
- 5a. Outline two(2) advantages and two (2) disadvantages of a questionnaire (4 marks)
- 5b. Mention three(3) advantages and disadvantages of Observation in data gathering (6 marks)
- 5c. Mention four (4) examples of application software (2 marks)
- 6a. Enumerate any three (3) goals of software requirement specification (6 marks)
- 6b. Outline 6 basic facts every programmer must consider while writing codes (6 marks)