NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SEPTEMBER/OCTOBER 2015 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: CIT 432

COURSE TITLE: Software Engineering 2

TIME ALLOWED: 2 ½ Hours
INSTRUCTION: Answer any four (4) questions.

1. (a.) List and explain the five (5) generations of computer software (10 Marks)
   (b.) List and explain two (2) purposes of software testing   (5 Marks)
   (c.) Define software maintenance   (2.5 Marks)

2. (a.) List and explain the two types of low level languages   (6 Marks)
   (b.) List the four reasons for articulating software life-cycle model (8 Marks)

   (c.) Define Utility software   (3.5 Marks)

3. (a.) Explain the following software life cycle models   (10.5 Marks)
   - Clean Room
   - Extreme Programming
   - Object-Oriented Model
   (b.) List four (4) advantages of questionnaire   (4 Marks)
   (c.) Define integration testing with an example   (3 Marks)

4. List and explain with the aid of a diagram the first seven (7) phase/stage of waterfall
   model   (17.5 Marks)

5. (a.) Define feasibility study   (3.5 Marks)

   (b.) List and explain four (4) types of software conversion   (8 Marks)
   (c.) List two (2) advantages and disadvantages of a Build-and-Fix model   (6 Marks)

6. (a.) Explain the following software life-cycle models   (5 Marks)
   - Build-and-Fix model
   - Incremental model

   (b.)Define software conversion   (3.5 Marks)
   (c.) List three (3) advantages and disadvantages of rapid prototyping model (6 Marks)
   (d.) Explain blackbox and whitebox testing   (3 marks)