FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
JULY 2017 EXAMINATION

Course Code: CIT703   **Course Title: Information Technology and Software Development**

Course Unit: 3   **Time Allowed: 3 Hours**

Instruction: Answer Question 1 and Any other 4 Questions

1a.   Explain what is meant by software process.
      6 marks

 b.   Differentiate between software validation and software verification.
      6 marks
 c.   What does stress analysis in a system involve?   4 marks
 d.   List any three examples of errors targeted by stress tests.   6 marks

2.   Outline the five processes a software user, would of a necessity diligently follow, to procure standard software.   12 marks

3a   Explain what is meant by Joint Application Development (JAD).
      4 marks
 b.   Outline four ideas on which JAD is based.   8 marks

4a.   Define Unified Modeling Language (UML).   4 marks
 b.   Explain the two different views of a system model represented by UML diagrams.   4 marks
 c.   Although UML is a widely recognized and used modeling standard, it is frequently criticized for some deficiencies. List four of such deficiencies.   4 marks

5a.   What is:
      project planning?
      project specification ?   4 marks
 b.   State four benefits of written specification agreement.   4 marks
 c.   List any four places where to locate errors in a project specification.   4 marks
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6a.   What is meant by project life cycle?   3 marks

 b.   Explain briefly the four phases in a project life cycle.   6 marks

 c.   Describe software project planning.   3 marks