NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16, Ahmadu Bello Way, Victoria Island, Lagos

SCHOOL OF SCIENCE & TECHNOLOGY

Course Code: CIT 333   **Course Unit: 2**

Course Title: SOFTWARE ENGINEERING I

Time Allowed: 2 ½ Hours

Instruction: Answer Any Four Questions

1.   Outline seven sub-disciplines of software engineering.
            17 ½ marks

2.   State seven functions of a software engineer.   17   ½ marks

3a.   Explain what is meant by software crisis.   6 marks
  b.   List three sources of software crisis.   4   ½ marks
  c.   State seven ways by which software crisis manifests itself.   7 marks

4a.   In software, what do you understand by logical modularity?
            4½ marks   List four benefits of modular design.
                  4 marks
                List three basic approaches to designing modular program
            6 marks

d.   List three attributes of a good Module   3 marks
5a.   What is software life cycle model?   3 ½ marks
  b.   Fully explain what is meant by a requirement in system engineering.
            5 marks
  c.   Briefly discuss what is meant by requirements management.
                  5 marks
  d.   At the end of the design process a design specification document

is produced. List four design models described in the document.
4 marks

6a   Explain Software Quality Assurance (SQA) concept.   5 marks

b.   Outline two SQA activities.   6 marks

c.   Explain what is meant by SQA audit.   3 ½ marks

d.   State the purpose of SQA audit.   3 marks