NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE & TECHNOLOGY
JANUARY/FEBRUARY 2013 EXAMINATION

Course Code: **CIT 831**
Time: **3hrs** **Credit Unit:** **3**
Course Title: **Software Engineering Methodologies Course**
Instruction: **Answer any five (5) questions.**
QUESTIONS

1a. Risks are inevitable in Software Development. Specify any four (4) of these risks.
(8 marks)

1b. Generally, the most appropriate life-cycle model depends on a number of factors. List six (6) of these factors.
(12 marks)

2a. Cite five (5) realistic instances of Software products developed by means of the spiral model that could be prone to hazards. (15 marks)

2b. List any five (5) components of the requirements document.
(5 marks)

3a. Give a concise description of the term 'viewpoint'.
(4marks)

3b. Enumerate and describe the steps involved in prototyping.
(16 marks)

4a. Write the inspection pre-conditions. (6 marks)

4b. Identify four stages of design. (4 marks)

4c. Identify and describe two types of domain-specific models.
(8 marks)

4d. What is the most effective technique for discovering errors?
(2 mark)

5. Give a brief description of the following concepts:
a. Software re-use)
b. Debugging) (5 marks each)
c. Software Testing)
d. Software inspection)
e. Defect testing)

6a. (i) What are formal specifications? (4 marks)
(ii) State the factors on which formal specifications are based. (4 marks)
6b. Give a brief description of the following:
i) Software design)
ii) Structured methods) (4 marks each, Total=12)
iii) System models)

7a. When is re-application desirable in an existing software? (12 marks)
7b. Describe two problems of domain requirements. (8 marks)

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