



# **PAN AFRICA CHRISTIAN UNIVERSITY**

**(BACHELOR OF BUSINESS INFORMATION TECHNOLOGY)**

## **END OF TERM EXAMINATION**

**DEPARTMENT:** COMPUTING & INFORMATION TECHNOLOGY

**COURSE CODE:** BIT304

**CAMPUS:** ROYSAMBU

**COURSE TITLE:** SOFTWARE ENGINEERING

**EXAM DATE:** MONDAY, 2<sup>ND</sup> DECEMBER 2019

**TIME:** START HOUR – END 14:00-16:00 HRS

## **INSTRUCTIONS**

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other Three questions in Section **B**.
- Write only your **student number** on the answer booklet provided.
- None programmable calculators permitted
- Calculators on phones, tablets and computers are NOT permitted in Theory Papers

**SECTION A: (Answer ALL questions in this section)**

**QUESTION ONE**

- a) Define the following terms as used in software engineering
  - i. Software metrics [2 Marks]
  - ii. Software Failures [2 Marks]
  - iii. Risk management [2 Marks]
  - iv. Milestones [2 Marks]
- b) Explain TWO objectives of quality planning in software development [4 Marks]
- c) Outline THREE risk management process activities. [6 Marks]
- d) Describe THREE stages for software testing [6 Marks]
- e) State and explain any THREE reasons for measuring software quality [6 Marks]

**SECTION B: (Answer any THREE (3) questions in this section)**

**QUESTION TWO**

- a) Define the term quality control [2 Marks]
- b) Enumerate the EIGHT causes of software errors. [8 Marks]

**QUESTION THREE**

- a) Differentiate between activity lists and activity attributes [4 Marks]
- b) Discuss THREE attributes of a good software [6 Marks]

**QUESTION FOUR**

- a) Differentiate between functional and non-functional requirements in a software development [6 Marks]
- b) Explain the following approaches to software Quality assurance and standards
  - i. Product Standards
  - ii. Process Standards [4 Marks]

**QUESTION FIVE**

- a) Define Software Quality Management [4 Marks]
- b) Discuss THREE Quality management activities as used in software engineering [6 Marks]

Marks]

**QUESTION SIX**

**PAN AFRICA CHRISTIAN UNIVERSITY**  
**EXAMINATIONS PAPER**



In software engineering concepts it's agreed that effort is required to make an accurate estimate of the cost required to develop a software system. Discuss any FIVE Software cost estimation techniques that you may use. **[10 Marks]**

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