

PAN AFRICA CHRISTIAN UNIVERSITY

DIPLOMA INFORMATION COMMUNICATION TECHNOLOGY

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: BIT 304

CAMPUS: ROYSAMBU

COURSE TITLE: SOFTWARE ENGINEERING

EXAM DATE: TUESDAY 5:30PM

TIME:

INSTRUCTIONS

- This exam carry a total of SIX Questions of [10 Marks Each]
- Section One (I) is compulsory.
- Answer any 3(Three) Questions from Section Two (II)
- Read all questions carefully before attempting.

Section One: Compulsory 10 marks

Question One.

You were involved in Database System deployment to your former High school. Discuss how you will handle the following processes during the deployment schedule.

- a) Unit testing, [2 marks]
- b) Integration testing. [2 marks]
- c) User Acceptance testing [2 marks]
- d) Feasibility Study [2 marks]
- e) System Design [2 marks].

Section Two Attempt any Three Questions.

Question Two.

Many software process models have been proposed to support software development life cycle.

- a) Besides waterfall model, Name any other FOUR models applicable in software development. [4 marks]
- b) One of the first models to be proposed is the Waterfall model. Discuss in details how the model works. [6 Marks].

Question Three

After taking part in a series of successful software projects, you have recently been appointed a project manager within a software engineering organization. Your first project in this position will be to build a large web-based application.

- a) State FOUR Reasons why staff would show resistance to a new project implementation. [4 marks]
- b) Discuss THREE ways you will apply to overcome user resistance for this project.

[6 Marks]

Question Four

Show in real life scenario where the following software design strategies are used.

- i. Cohesion [2marks]
- ii. Coupling [2marks]
- iii. Encapsulation [2marks]
- iv. Polymorphism [2marks]
- v. Inheritance. [2Marks]

Question Five.

Discuss FIVE reasons why After a major release of a software system, there often follows a period of corrective maintenance. [10marks]

Question Six.

Discuss FIVE fact finding approaches used in system development and any challenges involved if any. [10Marks]

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