PAN AFRICA CHRISTIAN UNIVERSITY
Where Leaders are Made

UNIVERSITY EXAMINATIONS: 2025/2026

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

BIT /BSIT 301

BCOM

BBL

BSIT 312 IT Project Management

END TERM EXAMINATION

DATE: **TIME: 2 HOURS**

INSTRUCTIONS: Question One is Compulsory, Choose Three Other Questions

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SECTION A (COMPULSORY)

QUESTION ONE (15 Marks) Compulsory

GreenTech Solutions Ltd is a medium-sized engineering company that specializes in sustainable infrastructure. The company recently launched a project to design and install a solar-powered water purification system in a semi-arid county in Kenya where residents face chronic water shortages. The project aims to:

- Provide clean drinking water to 10,000 households
- Reduce reliance on diesel-powered boreholes
- Improve public health outcomes
- Promote environmental sustainability

The project has attracted funding from a local NGO and support from the county government. However, early challenges have emerged:

- Delays in procurement of solar panels
- Community resistance due to lack of consultation
- Rising material costs
- Limited technical skills among local contractors

The project manager must now ensure the project is completed on time, within budget, and meets quality standards while satisfying stakeholders.

a) Explain the concept of project management **(2 marks)**
b) Discuss FOUR project success factors from the case above. **(8 marks)**
c) Describe the sources of project ideas in the case above. **(5 marks)**

SECTION B

(ANSWER ANY THREE (3) QUESTIONS IN THIS SECTION)

QUESTION TWO (15 marks)

a) Prepare a network diagram from the data given below. **(3 marks)**

Activity	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**
Duration	15	15	3	5	8	12	1	14	3	14
Precedes or Activity	-	-	B	A,C	A	B	D	D	F,G	E,H,I

b) Using the network diagram in (a) above find:

i. Total duration of the project. **(3 marks)**
ii. Critical Path **(2 marks)**
iii. EST, EFT, LST, LFT **(4 marks)**
iv. Total float of each activity **(3 marks)**

QUESTION THREE (15 marks)

a) Explain the meaning of the term "Risk" from the context of project management **(2 marks)**
b) Highlight FIVE types of project risks a manager should be aware. **(5 marks)**
c) Discuss four methods of reducing the risk of failure in a reproductive health project targeting young adolescent in secondary schools. **(8 marks)**

QUESTION FOUR (15 marks)

a) Describe FIVE Project Management Software tools that are used in monitoring and review a project. **(5 marks)**
b) Identify a project in your community and create a work break down structure for the project. **(10 marks)**

QUESTION FIVE (15 marks)

a) Highlight the causes of project termination in Kenya today. **(5 marks)**
b) You were appointed as a project manager in AB2 organization, discuss FIVE ways you would follow to terminate a project. **(10 marks)**

QUESTION SIX (15 marks)

a) Discuss FOUR key responsibilities of the project manager in any project endeavour **(8 marks)**
b) You were invited to an international forum to give a talk on project feasibility studies.

Describe key issues you would capture in your write up. **(7 marks)**