AFRICA UNIVERSITY
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COLLEGE OF BUSINESS, PEACE, LEADERSHIP, AND GOVERNANCE

NCSC 209: SOFTWARE PROJECT MANAGEMENT

END OF SECOND SEMESTER EXAMINATION

JULY 2022

LECTURER: MR A.C MUZENDA

DURATION: 3 HOURS

INSTRUCTIONS

Answer all Questions in Section A and **any three questions from Section B**
Total possible mark is 100

Start **each** question on a new page in your answer Booklet.

The marks allocated to **each** question are shown at the end of the section.

SECTION A: ANSWER ALL QUESTIONS

QUESTION 1

a. Why Are Projects Challenging? [4]

b. With the aid of an example, explain what a project is. [4]

c. Explain briefly the Project Life Cycle and the phases involved with the help of an example. [10]

d. Describe the concept of work breakdown structure in project planning. [6]

e. Explain in detail the Critical Path with the help of an example and demonstrate ways of speeding up the schedule whilst defining the term "Crashing". [6]

f. Outline any two quantitative factors that are used for project selection, which tend to focus on cost and explain each one of them with the help of an example. [10]

SECTION B

Answer any three questions

QUESTION 2

a. Explain why it is desirable for a project manager to have good communication skills [4]

b. Discuss four Critical Success Factors of an IT project [8]

c. Explain the components of a Log Frame. [8]

QUESTION 3

Discuss the various steps that are involved in order to come up with a risk management plan and explain why project risk planning is important in today's environment. [20]

QUESTION 4

a. Outline any two types of organization structure in project management, clearly stating advantages and disadvantages of each. [10]

b. With the aid of practical examples, state and explain any two types of reports, clearly bringing out how they differ from each other. [10]

QUESTION 5

Tasks	Description	Duration (Working days)	Predecessors
A	Requirement analysis	5	-
B	Systems design	15	A
C	Programming	15	B
D	Telecommunication	15	B
E	Hardware installation	30	B
F	Integration	10	C, D
G	System testing	10	E, F
H	Training/ Support	5	G
I	Handover & go live	5	H

(i) Draw an activity diagram/analysis. [8]

(ii) Calculate the critical path. [6]

b. Projects can be subjected to various feasibility tests prior to their implementation. Identify and explain any two feasibility tests that a project can go through. [6]

THE END