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UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN RENEWBLE ENERGY AND BIOFUELS TECHNOLOGY

COURSE CODE: REN 424

COURSE TITLE: PROJECT MANAGEMENT FOR TECHNOLOGISTS

DURATION: 2 HOURS

DATE: 4/8/23 TIME: 2-4PM

INSTRUCTIONS TO CANDIDATES

- Answer QUESTION ONE (Compulsory) and any other two (2) Questions.
- Indicate answered questions on the front cover.
- Start every question on a new page and make sure question's number is written on each page.

QUESTION 1 (30 marks)

QUI	ES7	CION	1 (30 marks)							
ä	a.]	Define	e the following terms:							
		i.	Project	(1 mark)						
		ii.	Project Management	(1 mark)						
		iii.	Stakeholder	(1 mark)						
		iv.	Project income	(1 mark)						
		v.	Working capital	(1 mark)						
	b.	Explain the stages of project management.								
	c.	Describe any five (5) typical stake holders in any project.								
	d.	State any five (5) typical project control activities.								
	e.	Explain any five (5) project finance appraisal techniques.								
	f.	State any five (5) desired features of project management softwares. (5)								
QU	ES	TION	2 (20 marks)							
	a.	Expla	ain any five (5) project characteristics.	(5 marks)						
	b.		ain any five (5) characteristics of a good project manager.	(5 marks)						
	c.		ain any five (5) key areas of project management.	(5 marks)						
	d.		the stakeholders' engagement process.	(5 marks)						
QI	JES	STION	3 (20 marks)							
	a.	Expla	ain any five (5) project finance sources.	(5 marks)						
	Ь.		ain the three (3) approaches to design control.	(3 marks)						
	c.	1	the three (3) essential steps in cost control process.	(3 marks)						
	d.		ain the three (3) categories of cash flows.	(3 marks)						
	e.		ain the three (3) basic financial statements in project management.	(3 marks)						
	f.		uss resource leveling as a resource optimization technique.	(3 marks)						
Q	UE	STIO	N 4 (20 marks)							
	a.	Com	(5 marks)							
	b.	5 (5) Least-see of computarized project management system. (5 m								
	c.		e the steps involved in Monte Carlo Simulation.	(5 marks)						
	d.		e the procedure of simplex method using computers.	(5 marks)						

QUESTION 5 (20 marks)

A project has eleven activities whose duration is given in the following table.

Activity	1-2	2-3	2-4	3-5	3-6	4-5	4-7	5-8	6-8	7-8	8-9
Duration	2	8	10	6	3	3	7	5	2	8	3
(days)											

- a. Draw the network
- b. Determine total, free and independent floats.
- c. Identify the critical activities, the critical path and project duration.