



# KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS  
2021/2022 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:** 02/07/2022

**TIME:** 2:00PM-4:00PM

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## 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.

This paper consists of 3 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating



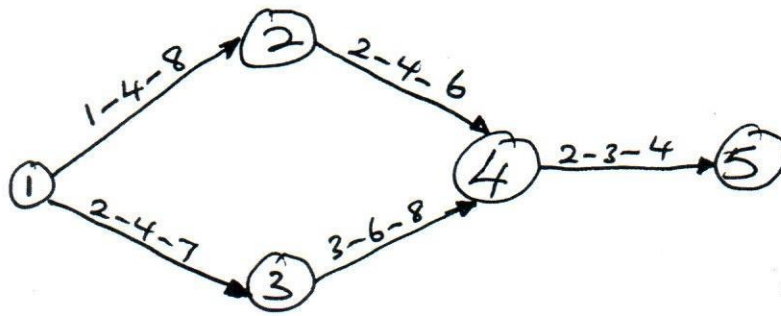


Fig. 1

**QUESTION 4 (20 marks)**

- Explain the stages of project management. (5 marks)
- Explain any five (5) sources of new project ideas. (5 marks)
- Give any five (5) comparison of CPM and PERT as used in project management. (5 marks).
- Describe any five (5) examples of stakeholders in a project. (5 marks)

**QUESTION 5 (20 marks)**

A project has twelve activities. The activity duration and the precedence relationship are given in Fig. 2. Find the total, free and independent floats for each activity. Identify the critical activities, the critical path and the project duration.

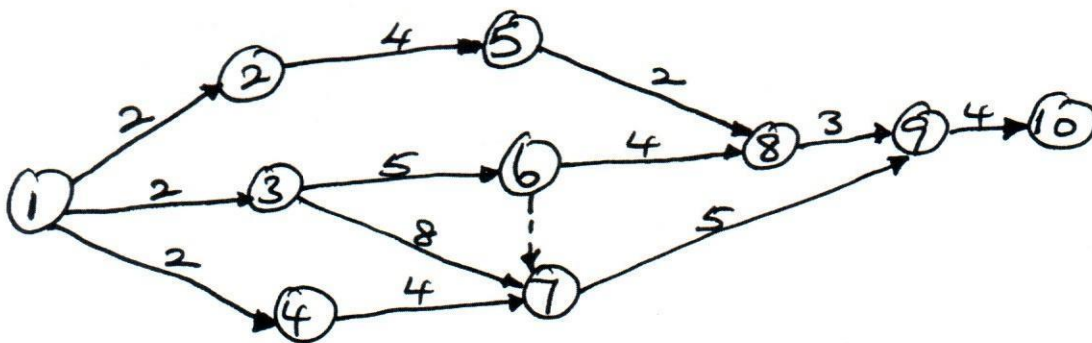


Fig. 2