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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2015/2016 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

COURSE CODE: SBL 221

COURSE TITLE: BASIC LABORATORY PRACTICE & SAFETY

DATE: 29th April 2016

TIME: 9:00 - 11:00 a.m.

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

Q1

- a. Define the following terms
 - i. Laboratory
 - ii. Suit laboratory
 - iii. Cabinet laboratory
 - iv. Laboratory quality (4 marks)
- b. Differentiate between
 - i. Open and closed laboratory
 - ii. Quality control and quality assurance (4 marks)
- c. Outline the principles of quality management and safety of laboratory facilities (4 marks)
- d. Write short notes on
 - i. Standard Operating Procedures
 - ii. Material Safety Data Sheets (4 marks)
- e. Briefly explain the hazards associated with laboratories (4 marks)
- f. Explain the importance of Good laboratory Practices (GLP). (4 marks)
- g. Enumerate the general goals of a laboratory (4 marks)
- h. List the organisations involved in accreditation of laboratories in Kenya (2 marks)

Q2 As a Scientist in charge of Virology laboratory, You have received blood samples from a patient allegedly suffering from Ebola virus. Describe the biosafety level containment you will use to handle the sample. (20 marks)

Q3 Discuss the approaches employed in assessing biological risks (20 marks)

Q4 Describe factors considered in designing and construction of laboratories. (20 marks)

Q5 Discuss the hazards associated with use of laboratories. (20 marks)