



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER SUPPLEMENTARY/SPECIAL EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

COURSE CODE:

SBL 221

COURSE TITLE:

BASICS OF LABORATORY PRACTICE AND

SAFETY

DATE: 10TH October, 2018

TIME:

11:30 a.m. -1:30 p.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: 3 Hours

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KIBU observes ZERO tolerance to examination cheating

Q1 (i)	Define the following terms a) laboratory quality b) Quality management system c) Quality control d) Quality assurance e) Quality manual	
		(5 marks)
(ii)	State factors addressed by Quality Management System	(5 marks)
(iii)	Explain the essential requirements of a Biological Sciences laborate	tory. (5 marks)
(iv)	Compare and contrast Biosafety Level 2 (BSL2) and Biosafety Le laboratories.	vel 3 (BSL3) (5 marks)
(v)	Distinguish between a. Cabinet and suit laboratory b. Open and closed laboratories c. Interstitial space and service corridor d. Physical and Ergonomic hazards e. Class C and D fires	(5 marks)
(vi)	(a) State common laboratory hazards in the laboratory(b) Explain how such hazards can be controlled	(2 mks) (3 mks)
in	s the Virologist in charge, you receive blood samples from a pa fected with <i>Ebola virus</i> . Describe the biosafety level containment ill use to handle the samples	
Q3 Di	iscuss Fire safety and its elements	(20 marks)
	iscuss International Institutions and Organisations involved in qual d accreditation of laboratories.	ity assessment (20 marks)
Q5 De	escribe Standard Operating Procedures (SOPs)	(20 marks)