

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR DEGREE OF MASTER OF SCIENCE IN BIOMEDICAL SCIENCES

SPECIAL EXAMINATIONS NOV. 2020

COURSE CODE: HMB 5115

COURSE TITLE: Laboratory & Healthcare Systems Management

EXAM VENUE: STREAM: MSc Biomedical Sciences

DATE: EXAM SESSION:

TIME: 3.00 HOURS

Instructions:

- 1. Answer Question One and Any Other THREE Questions
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

Answer Question 1 and any 3 other questions.

Q1. (Compulsory)

Describe the 5 functions of management, highlighting their implications for biomedical laboratory management. [15 marks]

O2.

Discuss the importance of *laboratory quality*, describing any 5 key roles it plays. [15 marks]

Q3.

Given the complex nature of the laboratory system, describe any 5 factors that must be addressed to assure quality in the laboratory. [15 marks]

O4.

Describe briefly the principles of *laboratory design* under the following sub-headings:

[15 marks]

- a. Access
- b. Circulation pathways
- c. Distribution of activities
- d. Spatial provision for equipment
- e. Facilities
- f. Work benches
- g. Cleaning

Q5.

Describe any ten Standard safety practices in a biomedical laboratory highlighting their relevance [15 marks]

Q6

Describe how any 5 risks within the biomedical laboratory may be prevented or managed

Note: the risks must be of different origins/types [15 marks]