



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF MASTER OF SCIENCE PUBLIC
HEALTH/ BIOMEDICAL SCIENCES
1st YEAR 1st SEMESTER 2022/2023 ACADEMIC YEAR
MAIN CAMPUS

COURSE CODE: HMB 5115

COURSE TITLE: LABORATORY & HEALTHCARE SYSTEM MANAGEMENT

EXAM VENUE:

STREAM:

DATE:

EXAM SESSION:DEC 2022

TIME:

3.00 HOURS

Instructions:

1. Answer question 1 (compulsory) and any other three (3).
2. Each question carries 15 marks

Question 1 is compulsory and any other 3 questions. Each question carries 15 marks.

Question 1: Quality management is a crucial component of ensuring standards are observed in laboratories.

- a. Identify potential challenges associated with setting up laboratory quality management system. *[5marks]*
- b. Explain the “total testing process” concept and the relevant indicators for assessing performance. *[10 marks]*

Question 2: Discuss how each of the following processes may influence the performance of clinical Laboratory management.

- a. *ISO* certification *[3 marks]*
- b. Strategic planning *[3 marks]*
- c. Staffing and scheduling *[3 marks]*
- d. Commodity and equipment procurement *[3 marks]*
- e. Continual medical Education *[3 marks]*

Question 3: Planning is an essential aspect for achieving an organized emergency preparedness and management program to forestall service disruption. Identify the key elements of emergency planning and discuss how they might be implemented. *[15 mks]*

Question 4: Discuss the factors to consider prior to the acquisition of new laboratory equipment or implementation of new procedures, based on the following subtitles.

- a. Technical/performance consideration *[5 marks]*
- b. Physical/Technology Requirements *[5 marks]*
- c. Human Resources Requirements *[5 marks]*

Question 5: Write short notes on the following concepts in laboratory practice.

- a. Quality control. *[5marks]*
- b. Maximum Allowable Error. *[5marks]*
- c. Turn-around time. *[5marks]*