



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

MAIN EXAM

2021/2022 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION

**FOR THE DEGREE OF BACHELORS IN EPIDEMIOLOGY AND BIostatISTICS,
B.SC. IN COMMUNITY HEALTH AND DEVELOPMENT**

COURSE CODES: HEM 122/HCD 124

COURSE TITLE: CRITICAL AND CREATIVE THINKING

DATE: 20/04/2022

TIME: 3.00-5.00 PM

INSTRUCTIONS TO CANDIDATES:

Answer ALL questions in section A and any TWO questions in section B
TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 2 Printed Pages. Please Turn Over



SECTION A(40 MARKS):Answer ALL questions

Q1 (a) Differentiate between the following concepts as used in and critical and creative thinking

(i) Epistemology and metaphysics (4mks)

(ii) Inductive and deductive reasoning (4mks)

(iii) Accuracy and clarity (4mks)

(iv) Logic and rationality (4mks)

(v) Cooperative learning and Learning to learn (4mks)

(vi) Self-awareness and honesty (4mks)

Q2a) State the philosophical levels of critical thinking (4mks)

(b)Elaborate on the interactive relationship between critical and creative thinking (4mks)

(c)State the importance of critical thinking in epidemiological research practice (4mks).

(d) Highlight FOUR approaches used in creative thinking in epidemiology and community health practice (4mks)

SECTION B; Answer any TWO questions

Q3.Examine SEVEN ways in which creative thinking has contributed to current practice in biostatistics (15mks)

Q4.You have been appointed the lead person in a community health intervention strategy team to spearhead a public health response to yellow fever outbreak in western Kenya. Expound on SEVEN tools of innovative thinking you may employ in the execution of the task at hand. (15mks)

Q5 You have been selected by Independent and Electoral Boundaries Commission (IEBC) to conduct civic education on voter empowerment in Kaka mega County Kenya. Expound on EIGHT ways in which you may apply the historical evolution of critical thinking to carry out the assignment (15mks)