



# MACHAKOS UNIVERSITY

University Examinations 2019/2020 Academic year

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

FOURTH YEAR SPECIAL /SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN POPULATION HEALTH.

**PPH 408: TRADITIONAL, COMPLEMENTARY AND ALTERNATIVE MEDICINE**

**DATE: 20/01/2021**

**TIME: 8.30-10.30 AM**

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## INSTRUCTIONS

This paper consists of two sections A and B

### SECTION A

- This section has one question
- The question is compulsory
- The question is 30 marks

### SECTION A: COMPULSORY

#### QUESTION ONE (30 MARKS)

- a) Differentiate between traditional and complimentary medicine (3 marks)
- b) Define the following terms in drug use: (4 marks)
- i) Pharmacodynamics
  - ii) Toxicology
  - iii) Herbal materials
  - iv) Active ingredients
- c) Describe with examples sources of drugs. (4 marks)
- d) Explain factors that modify dosage and effectiveness of drugs. (4 marks)
- e) Briefly explain phase one reactions in drug metabolism (3 marks)
- f) Critique the perceived low cost of traditional and complementary or alternative medicine (4 marks)
- g) Categorize with examples, the various forms of adverse drug reactions (4 marks)

- h) Beside herbal therapies, explain other traditional or complementary therapies used in your community. (4 marks)

### **SECTION B:**

- This section has four (4) questions
- Answer any two (2) questions
- Each question is 20 marks

#### **QUESTION TWO (20 MARKS)**

- a) Efficacy, safety and quality is a main limitation in use of traditional and complementary or alternative medicine. With relevant examples, describe traditional and alternative/complementary therapies that have successfully been incorporated into health systems. (10 marks)
- b) Discuss the process of drug development. (10 marks)

#### **QUESTION THREE (20 MARKS)**

- a) Most patients using traditional or alternative medicine along with conventional/ mainstream therapies will not inform the service providers. Discuss the possible outcomes in relation to drug interaction. (10 marks)
- b) Various organizations support traditional and complementary medicine by incorporating it in their programs. Discuss the role of such organizations in Sub-Saharan Africa in view of traditional and complementary medicine resources. (10 marks)

#### **QUESTION FOUR (20 MARKS)**

- a) There have been challenges facing policy development and regulatory structures for traditional/ complementary medicine. Discuss (10 marks)
- b) Herbs formed the main form of therapy in the traditional African society, Discuss the pharmacokinetic issues with use of such herbs (10 marks)

#### **QUESTION FIVE (20 MARKS)**

- a) During the time of “Babu’s cup in Loliondo”, a number of patients with chronic illnesses in Kenya defaulted treatment for Babu’s cup of herb. Discuss reasons that may have influenced their action. (10 marks)
- b) There are numerous challenges from development to use of traditional and complementary or alternative medicine. Propose ways in which these challenges could be addressed. (10 marks)