

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2014/2015**

**YEAR II SEMESTER II EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH**

**IPH 2208: MEDICAL MYCOLOGY**

**DATE:DECEMBER 2014 TIME: 2 HOURS**

**INSTRUCTIONS:** Answer all questions in Section A and any one question in Section B.

SECTION A 48 MARKS

QUESTION ONE

Compare the growth forms of fungi

a. Yeast (3 marks)

b. Pseudohyphae. (3 marks)

QUESTION TWO

Explain the principle of the germ tube test including the interpretation of results.

(6 marks)

QUESTION THREE

Briefly describe the use of molecular diagnostics in the identification of fungi.

(6 marks)

QUESTION FOUR

Many is a caregiver to her HIV positive sister. Outline four fungal infections she is likely to encounter with the patient. (6 marks)

QUESTION FIVE

Outline three effects of the following fungal toxins;

a. Ergot alkaloids (3 marks)

b. Aflatoxins (3 marks)

QUESTION SIX

Describe the clinical condition of mycotic mycetoma. (6 marks)

QUESTION SEVEN

a. Describe the clinical condition of ‘tinea’. (3 marks)

b. Outline four types of tinea conditions affecting man describing the possible predisposing factors. (3 marks)

QUESTION EIGHT

Explain the mechanisms of action of the following antifungal agents ;

a. Nyastatin. (3 marks)

b. Griseofulvin. (3 marks)

SECTION B 22 MARKS EACH

QUESTION NINE

Aspengillosis in one of the common opportunistic mycoses. Discuss highlighting the followign;

a. Aetiologic agent. (6 marks)

b. forms (6 marks)

c. Laboratory diagnosis. (5 marks)

d. Treatment and prevention. (5 marks)

QUESTION TEN

As a public health practitioner/educationist, explain the measures you would take to prevent and control fungal infections. (22 marks)

QUESTION ELEVEN

Outline the taxonomic classification of fungi. (22 marks)