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ICT Centre of Excellence

FACULTY OF SCIENCE AND TECHNOLOGY/ ENGINEERING AND TECHNOLOGY

SECOND SEMESTER 2014/2015 EXAMINATIONS

FIRST YEAR FIRST SEMESTER FOR BACHELOR OF SCIENCE IN ANALYTICAL CHEMISTRY /INDUSTRIAL CHEMISTRY/APPLIED PHYSICS AND COMPUTER SCIENCE/ TELECOMMUNICATION ENGINEERING

UCU 2100/SZL 2111 HIV/AIDS

DAY/ DATE: MONDAY 8.12.14 TIME: 11.00-1.00PM VEN: LR2/3/4/5/6

Instructions:

- This paper consists of **Five** questions.
- Answer question **One** and any other **TWO**
- **Phones and any unauthorized materials not allowed in exam room**

~~QUESTION ONE- COMPULSORY~~

- 1a(i) Outline three advantages of knowing one's HIV status(3 marks)
- 1a (ii) Give three reasons why sex education is important to a university student (3 marks)
- 1b.i Define Public Health (2 MARKS)
- 1bii. Discuss five measures that are used in Public Health to prevent diseases and promote health (5marks)
- 1c.Discuss FIVE factors that increase the risk of a young person contracting HIV in an institution of higher learning.(5 marks)
- 1d. A person visits a medical clinic and upon examination and testing is found to be HIV Positive. A check on his CD4 count reveals a count of 60 cells per millilitre of blood.
- i. What is the state of his immune function? (2 MARKS)

- ii. According to the WHO staging which is the most likely stage of his illness? (1 MARK)
- iii. Discuss three opportunistic diseases he is most at risk of suffering from.(3 MARKS)

1ei Define Home-Based Care for people with HIV/AIDS and give five advantages of this type of care.(6 marks)

~~Question 2~~

2a Justify the use of the following terms with reference to the HIV Virus.

- Lentivirus (2 marks)
- Retrovirus (2 marks)

2b. Discuss the various types and subtypes of the HIV virus and show how these types of HIV are distributed regionally. (8 marks)

2c Discuss the replication cycle of the HIV virus (8 marks)

QUESTION THREE(20 MARKS)

3a Define substance abuse and list characteristics of an individual dependent on substance(s)(5 marks)

3b. Briefly describe Five substances that are abused in Kenya in terms of the active substance, the form in which they are abused and manner of use.

(5marks)

3c Discuss FIVE ways in which substance abuse creates difficulties in meeting the HIV/AIDS challenge.(5 MARKS)

3.d. Discuss FIVE ways of reducing the problem of substance abuse.(5 MARKS)

~~QUESTION FOUR.~~

4a Explain the feature of Positive Living and ways of coping for People Living With HIV (10 MARKS)

4b. Discuss factors that can interfere with a Person Living With HIV/AIDS's compliance with Antiretroviral treatment(10 MARKS)

QUESTION FIVE.

5.a Show clearly how you would apply the following five HIV prevention strategies in appropriate situations and clients.(10 marks)

i. Prevention of Mother –to- Child Transmission of HIV

ii. Post Exposure Prevention of HIV.

ii. Blood Safety

iv. Prevention with Positives

v. Voluntary Medical Male Circumcision.

5b e) Discuss five challenges that are encountered in efforts to control the HIV pandemic

- Ignorance
- Poverty
- Social challenges
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