



2nd SEM. 2009

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

- PROGRAMME** : **B.Sc. in Agric. Econ. & Agribus. Mngt.**
B.Sc. in Agricultural Education
B.Sc. in Agronomy
B.Sc. in Animal Science
B.Sc. in Food Sc., Nutrition & Technology
B.Sc. in Home Economics
B.Sc. in Home Economics Education
B.Sc. in Horticulture
B.Sc. in Land and Water Management
B.Sc. in Textile & Apparel Des. & Mngt.
- COURSE CODE** : **AGR 101**
- TITLE OF PAPER** : **HIV & AIDS**
- TIME ALLOWED** : **TWO (2) HOURS**
- INSTRUCTIONS** : **ANSWER ALL FOUR (4) QUESTIONS**

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GRANTED BY THE CHIEF INVIGILATOR**

Question 1

- a. The RNA genome and the enzyme reverse transcriptase are two major biochemical components of the human immunodeficiency virus. What role do these biochemicals play in the life cycle of the virus? **(5 Marks)**
- b. How does the human immunodeficiency virus breach the non-specific immune system during unprotected sexual intercourse? **(5 Marks)**
- c. HIV protease and integrase are two important enzymes in the life cycle of the HIV. Explain the role of these enzymes. **(5 Marks)**
- d. What evidence is there to support the fact that mosquitoes do not transmit the HI virus from one person to another? **(5 Marks)**
- e. Explain the purpose of active immunization. **(5 Marks)**

[TOTAL = 25 MARKS]

Question 2

Fill in the blanks One Mark for an answer

1. Self concept is defined as one's

2. Components of self concept are
 - i).....
 - ii).....
 - iii).....
 - iv).....

3. Individuals with negative self concept express feelings of

4. The three types of Sexually Transmitted Infections or diseases include:
 - i).....
 - ii).....
 - iii).....

5. Sites of infection of STIs usually (any 3)
 - i).....
 - ii).....
 - iii).....

6. Match the following opportunistic diseases to the areas affected

<u>Diseases</u>	<u>Areas</u>
i. fungal rashes	a. brain
ii. pneumonia	b. skin
iii. toxoplasmosis	c. lungs
iv. meningitis	d. mouth
v. oral thrush	e. stomach
vi. acute psychosis	
vii. diarrhoea and vomiting	
viii. warts	

7. True or False answers

- i) Antiretroviral drugs are used to cure HIV infection
- ii) Screening for HIV infection involves laboratory analysis of blood to detect HIV antibodies
- iii) Opportunistic diseases in HIV infection usually occur one at a time
- iv) Opportunistic diseases are treatable with appropriate intervention
- v) Antiretroviral drugs treat opportunistic diseases

[TOTAL = 25 MARKS]

Question 3

Circle the correct answer

1. The ELISA screening test measures
 - a. bands of proteins specific for the virus
 - b. antibodies to HIV in the serum
 - c. chain reactions to DNA or RNA in virus
 - d. CD4 and lymphocytes count

2. Infections occur in individuals with HIV/AIDS due to
 - a. increased exposure to other individuals with infections
 - b. decreased ability of red blood cells to carry oxygen
 - c. decreased ability of the immune system to respond
 - d. decreased ability to tolerate antibiotic therapy

3. Impaired vision or blindness in someone who has AIDS may be due to infection by
 - a. cytomegalovirus
 - b. cryptosporidium
 - c. mycobacterium tuberculosis
 - d. herpes simplex virus

4. The first recognised cases of AIDS occurred in the USA in
 - a. 1981
 - b. 1982
 - c. 1983
 - d. 1986

5. In counselling, relation building includes all the following except
 - a. listening
 - b. observing
 - c. tracking
 - d. probing

6. Feedback in counselling helps the client to
 - a. explore feelings
 - b. examine alternatives
 - c. form action plan
 - d. trust the counsellor

7. Opportunistic infections can be caused by the following except
- parasites
 - viruses
 - bacteria
 - ultra violet rays
8. Genuineness include the following except
- self acceptance
 - self awareness
 - being defensive
 - being yourself
9. Pre-test counselling include the following except
- reason for testing
 - isolation if positive
 - sexual history
 - beliefs and knowledge about HIV/AIDS
10. On sharing the results with the client, the counsellor must do the following except
- results must be given personally
 - communicated calmly and professionally
 - client must read for herself/himself from a paper
 - results must be given in a simple and straight forward language

True or false answers

- Mosquitoes can transmit the HIV virus
- In counselling the major aim is to solve the client's problems
- Client's response to a positive HIV test results may vary from one person to another
- In basic communication skills, attending is achieved by facing client squarely
- Kissing can transmit herpes zoster
- Name any 5 common opportunistic diseases
- Name any 5 five antiretroviral drugs you know

[TOTAL = 25 MARKS]

Question 4

Discuss the value of food plants to people living with HIV and AIDS.

[TOTAL = 25 MARKS]