



**AFRICA  
UNIVERSITY**

*(A United Methodist-Related Institution)*

***“Investing in Africa’s Future”***  
**FACULTY OF HEALTH SCIENCES**

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2015/2016 FIRST SEMESTER EXAMINATIONS

COURSE CODE: SNS 314  
COURSE TITLE: BIOSCIENCES  
DATE: NOVEMBER 2015  
TIME: 3 hours

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***INSTRUCTIONS***

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Answer **any THREE** questions **Each question carries 20 marks.**

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The mark allocation for each question is indicated at the end of the question

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Credit will be given for logical, systematic and neat presentations.

**Total marks: 60**

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- 1a). Describe the function of Aldosterone. (5)
- 1b) Describe the function of Atrial Natriuretic Peptide Hormone. (5)
- 1c) Discuss how resistance to HIV can occur. (5)
- 1d) Regarding the Human Papilloma Virus describe pathogenicity, signs/ symptoms and management of the Human Papilloma Virus infection. (5)
- 2a)What do you understand by metabolic acidosis. (5)
- 2b)What do you understand by respiratory acidosis. (5)
- 2c) Regarding any one of the following:- Schistosoma, Plasmodium Falciparum, describe the microorganism, pathogenicity, how transmission occurs, management and how to prevent infection. (10)
- 3a) Regarding any one of the following electrolytes:- Sodium, Calcium or Potassium, describe the function, normal ranges, sources, effects of deviations from the norm. (10)
- 3b) What do you understand by deamination. (5)
- 3c) How do the kidneys and lungs respond to acidosis. (5)
- 4a) Describe aerobic cellular respiration. (15)
- b) Write short notes on Varicella Zoster. (5)
- 5a). Regarding any one of the following:- Streptococcus pyogens, helicobacter pylori, treponema pallidum, describe the micro-organism, pathogenicity, clinical manifestations, management and complications which may arise from infection. (10)
- 5b) Write short notes on the following:-
- i) Cryptococcal neoformans (5)
- ii) Downs Syndrome (5)

**THE END- BEST WISHES**