

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME
FINAL EXAMINATION 2013/2014
COURSE TITLE: HUMAN BIOLOGY
COURSE CODE: ZLU3185 / ZOU3165 / ZLE5185



DATE: 24th November 2014

TIME: 1.30 p.m. – 03.30 p.m.

ANSWER ANY FOUR (4) QUESTIONS.
ILLUSTRATE ANSWERS WITH LABELLED DIAGRAMS WHERE NECESSARY.

1. What is the vestibular apparatus? Describe how this apparatus performs its functions.
2. Explain how the body would adjust through physiological mechanisms in the following situations.
 - i) A British researcher living in an extreme dry heat environment, whilst on a three-month field visit to the Sahara Desert
 - ii) A Sri Lankan undergraduate on a one month expedition to the North Pole, exposed to a very cold environment
3. Write an account on the birth control options available for
 - i) males
 - ii) females who want to use an oral contraceptive
4. Compare the fundamental features of the following.
 - i) Primary and Secondary immune responses
 - ii) Humoral and Cell-mediated immune responses
5. The human anatomy has evolved to facilitate bipedal locomotion. Justify this statement.
6. Write notes on two (02) of the following.
 - a) Conduction system of the heart
 - b) Prenatal testing
 - c) Glomerular ultrafiltration
