THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF NATURAL SCIENCES
DEPARTMENT OF ZOOLOGY
B.Sc. /B.Ed. DEGREE PROGRAMME
FINAL EXAMINATION 2012/2013
HUMAN BIOLOGY - ZLU3185 / ZOU3165 / ZLE5185



DURATION: TWO HOURS

DATE: 9th December 2013

TIME: 1.30 p.m. - 03.30 p.m.

ANSWER ANY FOUR (4) QUESTIONS.

ILLUSTRATE ANSWERS WITH LABELLED DIAGRAMS WHERE NECESSARY.

- 1. 'Human kidney is involved in the hormonal regulation of water and sodium ion levels in the body'. Justify this statement.
- 2. Comment briefly on the following.
 - (i) Use of condoms is not only a contraceptive method but also a health protective behaviour.
 - (ii) Human skin is a multifunctional organ.
- 3. Explain the process known as nondisjunction of chromosomes and describe two human genetic syndromes caused by extra or missing sex chromosomes.
- 4. Compare between the immune responses developed in the following situations.
 - (i) When a child vaccinated against polio is subsequently exposed to the polio virus naturally.
 - (ii) When a person is given the BCG vaccine and when given an injection of snake antivenom serum.
- 5. Write an account on female infertility.
- 6. Write notes on two (02) of the following.
 - (a) Adaptations of the human foot for bipedalism.
 - (b) Homo erectus.
 - (c) Sensory and motor domains of the cerebral cortex.
