PAST GCE QUESTIONS MEETLEARN.COM

Cameroon GCE Board retains the full right as the creator and owner of these past questions. The questions as published on this site are to facilitate teaching and learning and should not be used for any commercial purpose whatsoever 2003Past GCE Advanced Level Biology Paper 2

June 2004

1. (a) Describe how plants arise py asexual reproduction

(b) Which of the following types of organisms do you expect to exhibit the greatest genetic variability arid

0	Second	ly reprod	unine
19	Jexual	iy icpioc	ucing

- (iii) Asexually reproducing
- (iii) Self-fertilising
- 2.(a) What is meant by;
- Homeostasis and 0
- (iii) Osmoregulation
- MEETLEARN.COM (b) Explain the part played by each of the follow
- Insulin and glucagon 0
- Antidiuretic hormone (ii)
- (iii) Fibrinogen

3. (a) Make a large fully labelled diagram of the mammalian skin as-seen in vertical section.

(2) Explain how the skin is adapted to perform its functions. (8,12 mks)

(a) Heredity is always associated with a

(i)Cell nucleus

(ii) chromosomes and

(iii) DNA. Describe in each case an evidence to support this.

(b) (i) What are the principal requirements of genetic materials.

(ii) How does the DNA molecule satisfy such requirements?

5. (a) Define species.

(b) Briefly account for the appearance of new species in a given population. Use specific examples to illustrate your answer,

(c) Explain why closely related species may be unable to interbreed successfully. (4,12, 4 mks)

6. (a) State the different types of gas exchange systems in mammals.

(b) With the aid of diagrams, describe how the lungs function in ventilation,

(c) How is this ventilation controlled?

7. (a) Make a labelled'diagram of the chloroplast as seen under the electron microscope

Name four photosynthetic pigments in plants^ (b)

(c) Describe the part played by chlorophyll in the light stage of photosynthesis.

(8, 4, 8 mks)

8. (a) Make a large fully labelled drawing to show the structure of a mammalian heart.

(b)(i) What do you understand by the cardiac cycle

(ii) How is the cardiac cycle brought about?

State how a continuous circulation of blood is monthly a mammal. (c)