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2004Past 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

why?

- (I) Sexually reproducing
- (E) Asexually reproducing
- (iii) Self-fertilising
- 2.(a) What is meant by;
- Homeostasis and (1)
- (iii) Osmoregulation
- NEETLEARN.COM Explain the part played by each of the following in homeostasis (b)
- Insulin and glucagon (1)
- Antidiuretic hormone (iii)
- (iiii) Fibrinogen
- 3. (a) Make a large fully labelled diagram of the mammalian skin as-seen in vertical section.
- (a) Explain how the skin is adapted to perform its functions. (8,12 mks)
- 4. (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.
- 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^
- (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 more like a mammal.