## 2001 HIGHER SCHOOL CERTIFICATE EXAMINATION Biology

Section I – Part B (continued)

Question 19 (6 marks)	Marks
In your Biology course, you performed a first-hand investigation to gather information about structures in plants that assist in the conservation of water.	
(a) Describe the procedure you followed.  - Collected + a variety of plants Such my leaves, cattus, roots, and stoms	4
- cut the specimens in longitude and from ways specimens uncut were - some transcript in a plastic covers or bags to see if water came and - analysed and observed specimens - recorded information and data	
(b) Identify TWO safe work practices needed during this investigation.  The use of protection such as gloves  Handling of cutting aparatuses in a approprately manner	2

## Marks

## Question 20 (7 marks)

Name ONE example of an Australian endothermic animal and ONE example of an Australian ectothermic animal, and summarise their responses to the following environmental changes. Give your answer in the form of a table.

7

Change 1: The ambient temperature rises well above the average daily temperature range.

Change 2: The ambient temperature drops well below the average daily temperature range.

Endothermic animal: Kana Queen

Ectothermic animal: Blue tonque uzard......

Animal	CHANGE ONE	CHANGE TWO
Kangaroo.	The Bongaroo would howe more water intake there wine would be concentrated. Soll would be be at our through secretion	Sout mould be kept In the body. ADH mondal release sugar for energy. The into hidding for warmin and energy to keep energy at it's .
Blue Tongue Lizard	The hizard would take in the sun, & would eventually move to somewhere cooler.	cold blooded, it would next underground to keep warm. Go into hybernation so was energy is used up.

## Question 21 (4 marks)

Sutton, Boveri and Morgan worked in the field of genetics.

4

Describe the contribution made by TWO of these scientists to the understanding of the chromosomal nature of inheritance.

Morgan's contribution to the chromosomal nature
of inher tance had to do with sex-unhage He
found their some diseases were attached to the X
Chromosome thus called sex-linked disease.
Sitton - he discovered to and that game ideas
of the chromosomal nature of whentence that
nobody had predicted before. For example
he concluded that genes ocurred in pairs
The Control of the Co