Name_____ ID_____

Practical Class (Day and Time)_____Demonstrators_____

SLE132: Practical 1 - Animal diversity

Answer all questions and complete all biological drawings on this worksheet; submit to the Practical 1 submission dropbox on moodle. All biological drawings should be in pencil; refer to the notes in the manual for correct technique in completing biological drawings.

Total for practical, 35 marks

Question 1: Construct a dichotomous key to separate the specimens of the phylum Echinodermata into their appropriate classes (Class Ophiuroidea, Class Asteroidea, Class Echinoidea and Class Holothuroidea). (3 marks)

Question 2: Construct a dichotomous key to separate the specimens of the phylum Mollusca into their appropriate classes (Class Polyplacophora, Class Bivalvia, Class Gastropoda and Class Cephalopoda). (3 marks)

Question 3: Use the keys in the manual and those you have constructed for questions 1 and 2 to correctly identify four specimens. (3 marks)

Colour and letter of specimen	**Steps taken through keys**	**Phylum (and class where possible)**
Example: Unknown specimen X	*1b, 2b, 3a, 4b, 16a, 17b*	*Phylum Echinodermata Class Asteroidea*

Question 4: List three features of all insects that distinguish them from the Arachnida and the Myriapoda. You may want to consult your textbook. (3 marks)

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Biological Drawings

Draw three specimens (**but not a sponge or a chiton**) including everything you need for a biological drawing (**See Appendix 2** - Legend, ruled lines, scale, use pencil only and each drawing should be at least 10cm size). Make sure you include at least **5 labels** for each drawing.

Biological drawing 1 (**6 marks**)

Biological drawing 2 (**6 marks**)

Biological drawing 3 (**6 marks**)