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FACULTY OF SCIENCE

DEPARTMENT OF ZOOLOGY AND ENVIRONMENTAL BIOLOGY

2018/2019 HARMATTAN SEMESTER EXAMINATION

APZ 417 – ZOOLOGICAL TECHNIQUES

INSTRUCTION: ANSWER ANY FOUR QUESTIONS

Time allowed: 2 Hours

1. a. List Four (4) advantages of a computer assisted Zoological illustration over the traditional assisted zoological illustration.
b. Give a schematic illustration of a Bright-Field microscope.
2. a. What are the main features of a good Zoological drawing?
b. Identify the general rules guiding making of Zoological drawings.
3. Briefly discuss the following advanced methods of preservation:
 - a. Plastic infiltration
 - b. Embedding
 - c. Freeze drying

b. Complete the Table below:

PHYLUM	ANESTHETIZING	KILLING AND FIXING	PRESERVATION
Cnidaria and Ctenophora			70% alcohol(formalin not recommended)
Birds			
Annelida	5-10% alcohol for 15 minutes		
Fish		Freezer and 10% formalin	
Nematophora	Not necessary		

14. Describe the processes involved in the preparation of a rabbit for preservation as:
- a. Embalment
 - b. Taxidemy

15. a. Define the term "Restraint in Mice and Rat".
b. Explain with relevant examples, types of Restraints used when working with Laboratory Animals.