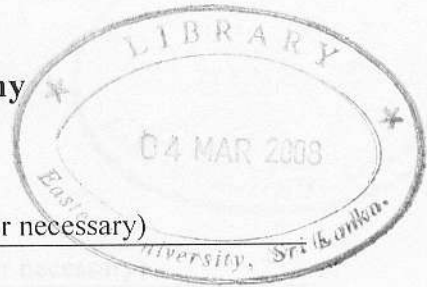


EASTERN UNIVERSITY, SRI LANKA
SPECIAL DEGREE IN ZOOLOGY 2004/2005 (JUN/JUL 2007)

PART I
ZL- 403- Comparative Anatomy



Time: 01 hour

Answer all questions.

(Illustrate your answers with clear labelled diagrams wherever necessary)

1. a) Comment on the lateral line sense organs of a fish.
 - b). Make clear labelled diagrams of the basic plan of a pentadactyl limb. Explain what modifications have taken place from the basic plan for
:-
 - i) swimming in the frog
 - ii) flight in birds
 - c). Describe the (i) brain stem and (ii) new brain
-
2. Describe the basic structure of the vertebrate ear and comment on the mechanisms of hearing.

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