



# QUAID-I-AZAM UNIVERSITY ISLAMABAD

Roll No: \_\_\_\_\_

B.Sc. Annual Examinations--2013  
(PART-I)

Answer Book No: \_\_\_\_\_

SUBJECT: **Zoology**

PAPER: **C (Theory)**

Time Allowed: **3 Hours**

**June 21, 2013**

Max Marks: **27**

**Note: Do as required for each section.**

### Section-I (Objective Part)

**Q. No.1 All parts of Section-I are compulsory; to be attempted on this page and must be handed over to the Superintendent within first 30 minutes. Cutting, overwriting and re-writing is not allowed in this part.**

**(a) Write true (T) or false (F) against each statement and also correct the false statement.**

(0.25x4=1)

S#	Statement	T/F	Correct Statement
i.	Ligaments are tough fibrous bands or cords attach skeletal muscles to the skeleton.		
ii.	Pons is the part of Rhombencephalon.		
iii.	Atriopeptin, the hormone secreted by kidneys, lowers the blood pressure and maintains the fluid balance.		
iv.	HCl of the stomach is secreted by chief cells.		

**(b) Encircle the correct one.**

(0.25x8=2)

- i. Water vascular system is a unique mean of location in:  
(a) Arthropods      (b) Molluscs      (c) Echinoderms      (d) Annelids.
- ii. Calcium ions bind with  
(a) Troponin      (b) Tropomyosin      (c) Actin      (d) Myosin.
- iii. The process which conducts the nerve impulse away from the cell body is:  
(a) Axon      (b) Dendrite      (c) Myelin      (d) None of these.
- iv. In central nervous system the bundles of nerve fibers are called:  
(a) Ganglia      (b) Nuclei      (c) Nerve      (d) Tract.
- v. Stretching is detecting by:  
(a) Georeceptors      (b) Phonoreceptors      (c) Hygroreceptors      (d) Proprioceptors.
- vi. Pain is decreased by the hormone:  
(a) ACTH      (b) Endorphins      (c) STH      (d) TSH.
- vii. Number of calories produced by protein is:  
(a) 3.3      (b) 4.4      (c) 4.6      (d) 9.5.
- viii. The true stomach is:  
(a) Rumen      (b) Abomasum      (c) Omasum      (d) Reticulum.

P.T.O

**(c) Fill in the blanks.**

**(0.25x8=2)**

- i. Keratinized derivatives of mammalian skin are \_\_\_\_\_ in 'Toothless Whales'.
- ii. Three layers of protective membranes called \_\_\_\_\_ surround the spinal cord.
- iii. Tongue muscles are innervated by tenth cranial nerve called \_\_\_\_\_.
- iv. \_\_\_\_\_ are the bare sensory nerve endings.
- v. The hormone which suppresses appetite is \_\_\_\_\_.
- vi. Hormone Calcitonin in the 'Jawed Fishes' and 'Primitive Tetrapods' is secreted by several small \_\_\_\_\_.
- vii. \_\_\_\_\_ are lipid aggregates with surface coat of bile salt.
- viii. A pair of lips protects the \_\_\_\_\_.

**(d) Label and comment the diagram.**

**(2)**