



QUAID-I-AZAM UNIVERSITY
ISLAMABAD

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

Roll No: _____

SUBJECT: **Zoology**

PAPER: **B (Theory)**

June 18, 2013

(Subjective Part) To be attempted in 2 hours and 30 minutes **Max Marks: 20**

Section-II (Short Questions)

Note: Give brief answers to any SIX of the following: (1x6=6)

Q. No.2

- (a) How do Trypanosomes gain entry into human hosts?
- (b) What are the three kinds of cells found in Porifera and what are their functions?
- (c) What is the main function of Opisthaptor?
- (d) What is Eutely? What is its significance?
- (e) What is Torsion? Give its advantages in Gastropods.
- (f) What is Epitoky? Why is it advantageous for some Polychaetes?
- (g) What are the various ways that spiders use silk?
- (h) What evidence indicates that bees are capable of learning?
- (i) What is indirect or Asynchronous flight? Describe its mechanism.
- (j) How does Bi-valve feed?

Section-III (Long Questions)

Note: Give detailed answers to any of the two questions.

Q. No.3 Explain the following:

- (a) Life cycle of the Digenetic Trematodes. (4)
- (b) The two types of excretory system in Nematodes? (3)

Q. No.4 Do as required.

- (a) Write down characteristics of Protostomes and Deuterostomes. (4)
- (b) What is the feeding and digestive system in Leeches? (3)

Q. No.5 Answer the following:

- (a) What is Ecdysis? Describe the events of Ecdysis. (3)
- (b) What is importance of Insects to human and plants? (4)