[This question paper contains 2 printed pages.] Sr. No. of Question Paper: 8332 \mathbf{C} Roll No..... : 223353 Unique Paper Code Name of the Paper : LSPT-305 : Biodiversity II (Animals) Name of the Course : B.Sc. Life Sciences Semester : 111 Duration : 3 Hours Maximum Marks : 75 (Write your Roll No. on the top immediately on receipt of this question paper.) Instructions to candidates: Attempt two questions from Section A and Two questions from Section B Question No. 1 is compulsory. Total questions to be attempted are FIVE. Illustrate your answers with diagrams wherever necessary. Q. 1 Define: (i) 6 Polymorphism b. Acoelomates c. Metamerism d. Apolysis Pneumatic endoskeleton e. f. Amniota (ii) Indicate True (T) or False (F) about the following statements: 6 Malarial Parasite is a Digenetic organism Teania solium has a well developed digestive system b. Hermaphrodite animals have two sets of female genital organs in their bodies Anadromous movement refers to the migration of fishes from fresh water to fresh water. A single ovary is found in pigeon. e. The primary characteristic feature of Chordates is the presence of notochord ſ. (iii) Indicate exact location of the following: 4 a. Madreporite b. Prosopyle c. Proscolex Chloride cells d. (iv) Differentiate between the following:

a. Gastrozooids and Dactylozooids

c. Anapsid and diapsid skull

b. Holozoic nutrition and holophytic nutrition

3

	(v)	(v) Match the words of column A with column B		
		Column A	Column B	8
		Pinacocytes Ookinete Proglottids Tubefeet Nematocysts Flame cells Nephridia Mantle	Echinodermata Teania solium Plasmodium vivex Platyhelminthes Annelida Mollusca Sponges Cnidaria	
Section A				
Q. 2	(a)	Define Parasitic adaptations. Discuss them with the help of examples you have studied		
	(b)	Describe the life cycle of <i>Teania solium</i> that occurs in its secondary host(8+4)		
Q. 3	(a) (b)	Give an account of the general characters of Phylum Echinodermata. Write a detailed note on the process of Metamerism(6+6)		
Q. 4	Write (i) (ii) (iii)	short notes on any TWO of the following: Pearl Formation Polymorphism in Cnidaria Sporogony	(6	+6)
Section B				
Q. 5	(a) (b)			4)
Q. 6	Write	Write adaptations for the aerial mode of life in birds. (12)		
Q. 7	Write (i) (ii) (iii)	e short notes on any TWO of the following: Adaptive radiation in Reptiles Archaeopteryx Primates.	(6+6	ó)