This question paper contains 4 printed pages]								
			Roll No.]		
S. No. of Question Paper : 73								
Unique Paper Code		: 223353			G			
Name of the Paper : Biodiversity II			al)-LSPT-30	5				
Name of the	Course	: B.Sc. Life Sciences						
Semester		: III						
Duration: 3 Hours				Maximum Marks: 7	5			
(Write your Roll No. on the top immediately on receipt of this question paper.)								
Sections A and B to be answered on separate answer books.								
Question No. 1 is compulsory in each Section and								
answer any two more questions from each Section.								
Draw neat and labelled diagrams wherever necessary.								
Section A								
1. (a)	Define the foll	owing:			•	3		
((i) Binary fi	ssion						
	(ii) Torsion							
	(iii) Deuteros	stomes						
(<i>b</i>)	Differentiate between the following:							
	(i) Bilateral	symmetry and radial sym	nmetry					

(ii) Metamerism in Annelida
(iii) Social life in termites
(iv) Syconoid canal system.
Section B
1. (a) Define the following:
(i) Bipedal
(ii) Synsacrum

(b)	Fill	ill in the blanks with suitable terms/words:						
	(i)	A protochordate showing retrogressive metamorphosis is						
	(ii)	The reptilian skull without temporal vacuity is called						
	(iii)	The flightless birds are classified as						
	(iv)	The hoofed mammals are called						
	(v)	is the connecting link between birds and reptiles.						
	(vi)	The anterior part of Balanoglossus is called						
(c)	Match the following:							
	(i)	Monotremata	(a)	Lepidosiren				
	(ii)	Lungfish	(b)	Echidna				
	(iii)	Marsupial	(c)	Macropus				
	(iv)	Jawfish	(<i>d</i>)	Petromyzon				
(d)	d) Differentiate between the following terms:							
	(i)	Amniote and anamniote						
	(ii)	Catadromous and anadromous migration						
	(iii)	Prototheria and Eutheria						
Describe the various morphological and anatomical adaptations for flight in birds.								

2.

- (a) What is osmoregulation? Compare the mechanism of osmoregulation in a marine bony fish with that in a cartilaginous fish.
 (b) Differentiate between the characteristics of Lacertilia and Ophidia.
 Write short notes on any three of the following:
 - (a) Anura
 - (b) Origin of tetrapod
 - (c) Australopithecus
 - (d) Protochordates.