## K.T.S.P. Mandal's Hutatma Rajqueu Mahavidyalya, Rajqueunagae Department 9 Zoology A.Y. 2022 - 2022

T.Y. B. Sc. (Zoology)
Course Title: Developmental Biology
Course code: ZO 355

Sr. No	Month		
1	Oct	1. Fundamentals of D	Teacher
		1. Fundamentals of Developmental Biology: 1.1 Definition and scope.	
		1.2 Concepts in Down	DRB
		1.2 Concepts in Developmental Biology: Growth, Differentiation, Dedifferentiation, Cell determination, Cell generalization.	en.
		Dedifferentiation, Cell determination, Cell communication, Morphogenesis, Induction and Barrentiation,	
		Morphogenesis, Induction and Regeneration.	
2	Nov		
		2. Theories of Developmental Biology: 2.1 Preformation.	
		2.2 Pangenesis.	DRB
		2.3 Epigenesis.	
		2.4 Axial gradient.	100
		2.5 Germplasm.	
		Complasm.	
3	Nov	3. Gametogenesis:	
		3.1 Spermatogenesis & Structure of sperm with respect to human.	DRB
		3.2 Oogenesis & Structure of ovum with respect to human.	DKB
		3.3 Types of eggs.	
		Types of eggs.	
4	Dec	4.Fertilization:	
		4.1 Concept and types.	DRB
	TO THE REAL PROPERTY.	4.2 Chemotaxis.	3
		4.3 Sperm penetration: Acrosome reaction, Capacitation &	1
		Decapacitation.	
		4.4 Activation of ovum: Fertilization cone.	
	Site in	4.5 Prevention of polyspermy: Fast block & Slow block.	
		4.6 Significance of fertilization.	
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5	Dec	5. Cleavage and Blastula:	
		5.1 Planes and symmetry of cleavage.	DRB
	6.3	5.2 Types of cleavage.	DKB
	The state of the s	5.3 Significance of cleavage.	
		5.4 Definition and types of Blastula.	
The state of		5,4 Bolimilan and types of Blastala,	
6	Jan	6. Gastrulation:	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.1 Definition and Concept.	
35		6.2 Basic cell movements in gastrulation. In the	DRE
		6.2 Basic cell movements in gastrulation: Epiboly, Emboly, Convergence,	41.
			37.31
. 11		Invagination, Ingression & Involution with reference to frog.  6.3 Concept of Organizer: Primary Second	
	47	6.3 Concept of Organizer: Primary, Secondary and Tertiary.	
	Char.	and Terriary.	

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	7.3 Formation and cleavage in Chiek	DR
	7,4 Primitive et and derm.	Marketing to the second of the
100	7.5 Head process and regression of Prim	- A

As per above mention theory syllabus of Semester I completed successfully.

Prof. D.R. Borhade