## RAMAKRISHNA MISSION VIDYAMANDIRA (Residential Autonomous College affiliated to University of Calcutta) SECOND YEAR [2016-19] B.A. /B.Sc. FOURTH SEMESTER (January – June) 2018 Mid-Semester Examination, March 2018 7/02/2018

Date	: 1	L7/03/2018 ZC	OOLOGY (General)	
Time	: 1	lpm – 2pm	Paper: IV	Full Marks: 25
1.	Ans	swer <b>any five</b> questions of the following	ıg:	(5 × 2)
	a)	Write the chemical composition of Pe	earl.	
	b)	What is ovaprim?		
	c)	Write the scientific name of a brackis	h water fish and a cat fish?	
	d)	Name the different isotopes of IgG.		
	e)	Mention the characteristic features of	a Miracidium larva. What is fascioliasis?	[1+1]
	f)	State the functions of $I_gA$ and $I_gE$ .		
	g)	What is F <sub>c</sub> fragment?		
	h)	Distinguish between Systematics and	Taxonomy.	
	i)	Mention the advantages of Beta Taxo	nomy.	
2.	Ans	Answer any three questions of the following:		(3 × 5)
	a)	'Macrotaxonomy is not possible w	vithout knowing Microtaxonomy' – justify. Wh	nat are
		Phenon and Deme?		[3+2]
	b)	What are the basic principles of a dov	wnward classification? Mention the important rule	es for a
		Binomial Nomenclature.		[2+3]
	c)	Briefly explain the process of pearl ne	ucleus insertion operation. What is MTGX?	[4+1]
	d)	State the differences between exo-er	ythrocytic and pre- erythrocytic schizogonies? WI	hat are
		Schüffner's dots?		[3+2]
	e)	Describe the sexual phase of life cycle	e in <i>Plasmodium vivax</i> with a neat diagram.	[5]
	f)	Distinguish between precipitation	and agglutination reactions. Which technique	es are
		commonly adopted in an agglutination	n reaction?	[3+2]
	g)	g) What are Antibody affinity and avidity? Describe the clinical treatment and control of		
		Fasciola infection.		[2.5 + 2.5]

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