RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

FIRST YEAR [2018 - 21]

B.A./B.Sc. FIRST SEMESTER (July – December) 2018 Mid-Semester Examination, September 2018

Date : 26/09/2018 **ZOOLOGY (General)**

Time : 12 noon - 1 pm Paper: I Full Marks: 25

1.	An	swer <u>any five</u> questions of the following:	(5×2)
	a)	Write down the functions of rRNA and Z-DNA.	[1 + 1]
	b)	What is glycosylation?	
	c)	What are integral proteins?	
	d)	Compare between micronucleus and macronucleus.	
	e)	Enumerate four important attributes of X-linked recessive inheritance.	
	f)	What is proteronopia and deuteronopia?	[1 + 1]
	g)	Name the essential components of an 'Apical Complex'.	
	h)	Mention three major characteristic features of the phylum Ciliophora.	
2.	An	swer <u>any three</u> questions of the following:	(3×5)
	a)	Describe the clover leaf model of tRNA. Mention different clinical findings of a down syndrome affected patient. What is point mutation?	[2+2+1]
	b)	Describe receptor mediated endocytosis with the help of a neat diagram. Briefly explain the ultrastructure of flagellar axoneme.	e [3 + 2]
	c)	"DNA replication is semi conservative"- prove the proposition by means of Experiments, Observations and Inferences.	[5]
	d)	Explain the process of excretion in <i>Taenia</i> with a flow diagram. What do you mean by gynandromorphs?	[3+2]
	e)	State the types of spicules which are commonly found in sponges with examples. Name the modes of asexual reproduction in poriferans.	e [4 + 1]

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