## RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

## FIRST YEAR [2017-20]

B.A./B.Sc. FIRST SEMESTER (July – December) 2017 Mid-Semester Examination, September 2017

Date : 14/09/2017 **ZOOLOGY (General)** 

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

1.	Ans	swer <u>any five</u> questions :	[5×2]
	a)	How many types of nuclei are found in the phylum Ciloiphora? <i>Labyrinthula &amp; Plasmodium</i> belong to the phyla & respectively.	[1+1]
	b)	Mention four major characteristic features of the phylum Ciliophora.	[2]
	c)	Write the scientific name of a pathogenic protozoon? What are Paramylon granules?	[1+1]
	d)	What are microfilament and trichocysts?	[2]
	e)	Define Euglenoid movement.	[2]
	f)	What is cnidocil? State its function?	[1+1]
	g)	What is colloblast cell? Mention its function.	[1+1]
	h)	What is the difference between coelom and pseudocoelom? Give an example of each.	[1+1]
2.	Ans	swer <u>any three</u> questions :	[3×5]
	a)	Illustrate the role of actin and myosin in amoeboid movement.	[5]
	b)	Distinguish between Spongin & Spongoceol. What are Choanocytes? Mention three major characteristic features of the class Demospongiae.	2+1+2]
	c)	Briefly describe the process of conjugation in <i>Paramoecium</i> ? What are the advantages of this process?	[4+1]
	d)	What is GERL Complex? Write its function. Mention the types of vesicles found in a cellular lysosomal system.	+2+2]
	e)	What is the difference between chromosome and chromatin? What is nucleosome? Give its structure.	1+1+3]
	f)	What is haemophilia? If a normal male marries a colorblind female, what is the probability of their male child to be color blind? Justify this with reasons.	+3+1]
	g)	Give the structure of a eukaryotic ribosome. Describe the elongation process in protein synthesis.	[2+3]

\_\_\_\_×\_\_\_