## CELL BIOLOGY AND BIODIVERSITY-I

Semester-I

Ti	220 4 11-			oemeste.	• •		
N.	ile Willow	ed: 3 Hours]				[Maximum Marks	: 50
INC	ite: Alle	mt two quesiton	each from Section	A and B.	carrying 7½ marks ea	ich. Section C is compu	Isory
	and	consists of 10 s	hort answer type	auestions	carrying 2 marks ea	ach.	
			· / // V	Section -	A		
1	(a)	Write done the	various function	s of the c	ell membrane.		31/2
		(b) What are the difference between Light and Electron microscopes?					
2.		(a) Discuss the functions of Mitochondria.					2½ 5
	1.5.	(b) Differentiate Smooth Endoplasmic Reticulum from Rough Endoplasmic Reticulum.					
3.		Draw a well labbellel diagram of the life history of Plasmodium vivas.					
4.							71/2
(a) Noctiluca. (b) Hyalonem						ecological note.	
	(c)	Trypanosoma.		(g)	Entamocba		
	(e)	Opalina.		(i)	Grantia.	(2½×2=	71/4)
	(0)	Оранна.		Section -		(272**2	1/2)
5.	Civa	an aggovert of v					71/2
	Eval	an account of v	arious types of Zo	oolds loui	nd in Obelia colony.		7%
6. 7.	Explain the life history of Fasciola hepatica.  Give an account of External characters of Earthworms. Dicuss the economic importance of this						
/.	Give	an account of E	xternar characters	of Earth	worms. Dictiss the ed	continue importance of	71/2
0	anim		! C 4! C C	- C (1	Callannian amaniama	unto ordore :	1/2
8.			incation of any n		following organisms	upto orders.	
	(a)	Hydra		-	chistosoma		
•	(b)	Obelia		(g) D	ugesia		
	(c)	Sertularia	$\Rightarrow_{\lambda}$		hestopterus		
	(d)	Aurelia			phrodite	(1½×5=	714)
	(e)	Ascaris			dynoe.	(1/2^3-	172)
				Section -			
			(C	Compulso	ry)		
9.	Write	short notes on t	he following:	21.5	Divers Gerian in A	n, a a la a	
	(a)	Exocytosis.		(b)	Binary fission in A	moeba.	
	(c)	Passive Transp	ort.	(d)	Osmosis.		
	(e)	Differences bet	ween Male Ascar	is and Fei	nale Ascaris.		
	(f)	Excurrent cana	ls in Obelia.	(a. )			
	(g)	Flame cells.		(h)	Osmoregulation		
	(g) (i)	Conjugations.		54 (5-45%)•			
(i) Zoological names of the following organisms.							
		(a) Tape wor	m.	(b)	Jelly fish.	(2×10=	20)
		- XX. •					