(i)	Pri	inted Page	es:2		Roll No		0.16		
(ii)	Qu	estions	:9	Sı	ıb. Code	. 0	0	5	4
e de	i vast				m. Code		0	0	1
		B.A	A./B.Sc.	(Gener	al) 1 st Semes	ter			
				(2122	2)				
				ZOOLO	OGY				
	Pa	per : I, Bi	o-Diver	sity & C	cell Biology-l	(ZOC	D-10	1)	
Tim	e All	owed: Th	ree Hou	ırs]	[Max	ximun	n Ma	rks	: 36
Not	e :	compuls	ory and	select or	n all including question from grams where	om ead	ch un	it. D	
I	Des	scribe the fo	ollowing						
	(a)	Morpholo	ogy of tr	ophozoi	te of Giardia				
	(b)	Short not	e on Ba	lantidiu	m				
	(c)	Scleroblas	sts			nacio			
	(d)	Write a short note on Physalia							
	(e)	SEM							
	(f)	Double staining							
	(g)	Active Transport							
	(h)) Exocytosis							3×1
				UNIT-					
П.	(a)	Describe	the eryt	hrocytic	life cycle of	Plasm	odiu	m vir	vax.
		Give suita	ible diag	ram.					31/2

	(1	b) Give diagrammatic representation of life cyc	cle and
		pathogenicity of the parasite causing amoebic dysen	tery.
III	. (a	Describe the process of osmoregulation in Parameter	$3\frac{1}{2}$ cium.
			31/2
	(b) Describe the mechanism of locomotion in Amoeba.	31/2
		UNIT—II	
IV.	(a)	Describe the canal system in Scypha.	31/2
	(b)	Discuss polymorphism in Obelia colony.	31/2
V.	(a)	Discuss the methods of reproduction in Scypha.	31/2
	(b)	Give in detail the characters of Phylum Coelenterata	. 31/2
		m doso mod andre UNIT—III	
VI.	(a)	Give the principle and applications of Phase co	ntrast
		microscope.	31/2
	(b)	Give an account of fixatives used in histological and histoch	emical
• • • •		studies.	31/2
VII.	(a)	Differentiate between prokaryotic and eukaryotic cells	
	(b)	Explain the Fluid Mosaic Model of plasma membrane	e.3½
		UNIT—IV	
VIII.	(a)	Explain the structure and functions of endoplasmic retic	ulum.
			31/2
	(b)	Explain the role of mitochondria in cell respiration.	31/2
IX.	(a)	Explain the structure and functions of Golgi complex.	31/2
	(b)	Give an account of structure and function of Mitochon	drial
		DNA.	31/2
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