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SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2014

(12 × ¼ = 8 weight)	UG—CC	SS)		
Core	Course-	-Zoology		IL She
ZO 2B 03—METHODOLOG	Y OF ZO	OOLOGICAL EXPLOI	RATIONS	
		missions)	Motilation	
: Three Hours			Maximum: 30 V	Weightage
	tions whe	rever necessary.		
Answer all twelve questions. Each que				
	Stion car			
Objective type questions: 1 Which of the following is used for	collecting	nocturnal insects?		61.
(a) Light traps.	(b)	Tullgren funnel.		
(c) Funnel trap.				
2 Who proposed the three kingdom				
(a) R.H. Whittaker.	(b)	Earnst Haeckel.	rt Answer Quest	
(c) Carl Woese.				772
3. The technique used for the analy	sis of DN	A is:		
(a) Northern blotting.	(b)	Southern blotting.		
(c) Western blotting.		Eastern blotting.	What is PCR?	
4 The optical device used for ma observation is:			objects under n	nicroscopio
	(b)	Camera lucida.		
(c) Dark field microscopes.	(d)	Light microscope.		
3. Name the following:—				
5 A commonly used method for the	e demonst	ration of lipids.		
6 A fixative used in electron micro		ingerprinting? Mention	What is DNA	
7 Name the staining technique th	at uses a	dye to stain the backgro	ound but not the	cell.
8 Name a mounting medium of pe				
C. Fill in the blanks:				
9 Phase contrast microscope is us	ed to exar	nine the components of	•	
10 ——— is a separation techniq	lue moven	nent of charged molecu	les in an electric	field.

11 Magnification = Size of the retinal image formed by unaided eye 12 The rate of sedimentation of particles in centrifugation is called - $(12 \times \frac{1}{4} = 3 \text{ weig})$ II. Short Answer Questions. Answer all nine questions: 13 Bilateral symmetry. 14 Mutilation. 15 Fluorescent dyes. Home range. 17 Freeze fixation. Eucoelomate. 19 NMR spectroscopy. State Beer-Lambert law. 21 What is staining? Name a neutral stain. $(9 \times 1 = 9 \text{ weight})$ III. Short Answer Questions. Answer any five questions: 22 Briefly describe Western blotting. 23 What do you understand by remote sensing? List four methods employed in trapping and collecting birds. What is PCR? Mention two applications of PCR. Differentiate between Diploblastic and Triploblastic organisms with examples. Mention the merits of five kingdom classification. What is meant by resolving power of a microscope? $(5 \times 2 = 10 \text{ wei})$ IV. Essay Questions. Answer any two questions: 29 What is nomenclature? Briefly explain the four systems of biological nomenclature. 30 What is DNA fingerprinting? Mention four applications of DNA finger printing. 31 Briefly describe the illumination source and lens systems in electron microscope. different types of electron microscopes. Involve inequalities to multiply animation $(2 \times 4 = 8)$ we