



ZOOLOGY PAPER - I : ZOO - 111 Non-Chordates - I (11155)

P. Pages Time : Tv		dours	S		Max. Marks : 40			
Insti	1. 2. 3. 4. 5.	Do r Grap used Stud All C Figu	to Candidates: not write anything on que ph or diagram should be d for writing paper or bla- dents should note, no sup Questions are compulsor ares to right indicate full w neat labelled diagrams	draw ck HE oplem y. marks	n with the black ink pen being 3 pencil. nent will be provided. s.			
1.	Multiple choice attempt any eight.							
	i)	a)	spicules having only on asters monoaxons		sigmas			
	ii)	a)	oila shell usually consist 3.5 whorls 6 whorls	b)	5.5 whorls 6.5 whorls			
	iii)	whi a)	e floor of buccal cavity in ch is radula odontophore	pila b) d)				
	iv)	a)	e mode of respiration in F Aquatic Parasitic	Pila is b) d)	aerial Both a and b			
	v)	In p a) c)		es ar b) d)	e present. 4 8			

		vi)	a)	a is animal. Unisexual Hermaphrodite	b) d)	Bisexual undifferentiated	`			
		vii)	a)	a chiefly excrete ammonia ammonia compound	b) d)	uric acid both a & b				
		viii)	a)	dicellariae are charact Platyhelminthes Echinodermata	b)					
		ix)	a)	arl is produced by arthropods Molluscs	b) d)	echinoderms annelids	•			
	4	x)	a)	e foot in Pila is elongated well muscularised	d) b)	flat leaf shaped not found				
2.		i) iii)	Te	/ Explain / comment a ntacles enidium nmatophore	ii)	Pulmonary chamber Blood of Pila	8			
3.		Attempt any two of the following. i) Gemmule formation. ii) Sketch and label – female reproductive system of pila. iii) Describe Pericardium and heart of Pila.								
1.	a)	Attempt any two of the following. i) Describe the Copulation and fertilization of pila. ii) Give an account on biting and chewing type of mouth parts. iii) Describe Osphradium in Pila.								
	b)	Ex	Explain – Pulmonary sac.							
5.		Attempt any one of the following. i) Describe excretory system and physiology of excretion in pila. ii) Describe the nervous system of Pila.								