WPZ- 8427

125

M.Sc. (Part—II) Semester—III (CBCS) Examination ZOOLOGY

(Entomology—II (Insect 43 Anatomy and Physiology))

Paper—XII (Elective Paper—II)

Time : Three Hours]			[Maximum Marks: 80	
	Note	:—(1) All questions are compulsory.		
		(2) All questions carry equal marks.		
		(3) Illustrate your answers with suitable diagrams wherever	necessary.	
1.	Give	an account on structure and modifications of digestive system.		
		OR		
	Give	an account on physiology of circulation in insects.	16	
2.	Give	an account of structure and modifications of respiratory system.		
		OR		
	Desc	cribe the physiology of excretory system.	16	
3.	-	ain the following:		
	. ,	Neurotransmitters		
	(b)	Basic structure of Brain		
	(c)	Cholinergic system		
	(d)	The neurons.		
		OR		
	(e)	Production of receptor potentials in companiform sensilla.		
	(f)	Transmission of nerve impulse.		
	(g)	The central nervous system.		
	(h)	Aminergic system.	16	
4.		e account on :		
	(i)	Structure of testis		
	(j)	Types of insemination		
		The neurosecretory cells		
	(1)	The corpora cardiaca.		
		OR		
		The Ecdysial glands		
	(n)	Different types of exocrine glands (Pheromone glands)		
	(0)	Types of ovarioles		
_	(p)	Oviposition.	16	
5.	_	ain the following:		
	(q)	Moulting process		
	(r)	Imago eclosion from cocoon		
	(s)	Types of Pupae		
	(t)	Diapause.		
		OR		
	(u)	Biochemistry of insect cuticle		
	(v)	Types of Larvae		
	(w)			
	(x)	Polyphenism.	16	

http://www.sgbauonline.com/