M.Sc.- II (Zoology) CBCS Pattern Semester-IV

PSCZOOT14.1 - Special Group: Entomology-III (Sense Organs, Social Life and Agriculture Pests)

P. Pag Time	_	ee Hours * 6 4 2 6 *	GUG/W/23/11429 Max. Marks : 80	
	Notes	 All questions are compulsory. All questions carry equal marks. Draw well labelled diagram if necessary. 		
1.		Write an essay on compound eye-structure and function.		16
		OR		
	a)	Write an essay on sound producing organs: Structure and physiology.		8
	b)	Write an essay on Light producing organs: Structure and bioluminescen	t mechanism.	8
2.		Write an essay on Mechanoreceptors: Sensory hairs, companiform sensitorgans.	lla and chordotonal	16
		OR		
	a)	Write an essay on Tympanal organs, Johanson's organ.		8
	b)	Write an essay on Immunity in insect: Innate immunity and molecular n	nechanism.	8
3.		Write an essay on social life: Polymorphism, nest building and social be	ehavior in Isoptera.	16
		OR		
	a)	Write an essay on social life: Polymorphism, nest building and social be	chavior in ants.	8
	b)	Write an essay on Locust migration and swarming.		8
4.		Write an essay on Pest of Mango-classification, life history, damage and	d control.	16
		OR		
	a)	Write an essay on Pest of Cotton classification, life history, damage and	control.	8
	b)	Write an essay on Pest of Cabbage classification, life history, damage an	nd control.	8
5.		Attempt the followings. a) Ocelli structure and functions. b) Mimicry and camouflage. c) Parasitic Hymenoptera-types and significance. d) Stored grain pests.		16