## M.Sc.(Zoology) (CBCS Pattern) Third Semester

## PSCZOOT10-1 / PSCZOO10-1 Entomology Paper-I Special Group Paper-X (Insect Morphology and Physiology)

P. Pages: Time: Thr		ours * 3 4 1 0 *	<b>GUG/W/18/11307</b> Max. Marks : 80
Note	2	<ol> <li>All questions are compulsory.</li> <li>All questions carry equal marks.</li> <li>Illustrate your answers with well labelled diagrams.</li> </ol>	
1.	Giv	e details account on wing structure and mechanism of flight in Insect	s. <b>16</b>
		OR	
	Wri a) b)	te notes on:  Molecular structure of insect integument Insect appendages.	
2.	Giv	e detailed account on structure of alimentary canal and add a note on	salivary glands. 16
3.	a) b)	te notes on: Plastron respiratory mechanism. Haemolymph- Cellular and chemical composition.	of Incoats 16
3.	GIV	e details account on structure and function of neuroendocrine system	of Insects. 16
	Wri a) b)	te notes on: Physiology of excretion. Pheromones	
4.	Des	cribe in details on mechanism of spermatogenesis and vitellogenesis. <b>OR</b>	16
	a) b)	Parthenogenesis. Metamorphosis.	
5.	Atte	empts the following.	16
	a)	Morphology of insect abdomen.	
	b	Tracheal respiration.	
	c)	Anatomy of Brain.	
	d)	Early embryonic development.	
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