MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

			Dioc	(**************************************	,				2002	22
Semester		;	II (New)	To	erm :		Second	Academ	c Year : 2022-	23
Course No.			H/ENTO 121	Ti	itle :		Fundamer	ıtals of En	tomology	
Credits Day & Date			3 (2+1) Mondny, 07.08.2023	Ti	ime :		9:00 to 12:	00 hrs.	Total Marks:	80
Note: 1. Solve ANY EIGHT questions from SECTION 'A'.										
2. All questions from SECTION 'B' are compulsory.										
		3. 4.	All questions carry equ Draw neat diagram who			y.				
4. Draw heat diagram wherever necessary.										
Q.1	and the state of t									
Q.2	Give the distinguishing characters of order Diptera and enlist its four important families with one example each.									
Q.3	Explain different types of wing coupling apparatus in insects with suitable examples.									
Q.4	Explain in detail how insects are related to human beings.									
Q.5	State the distinguishing characters of order Orthoptera and enlist its four important families with one example each.									
Q.6	Describe the mouth parts of grasshopper along with well labeled diagram.									
Q.7	Define metamorphosis and describe its types with suitable examples.									
Q.8	State the distinguishing characters of order Lepidoptera and enlist its four important families with one example each.									
Q.9	Describe the male reproductive system of cockroach with well labeled diagram.									
Q.10	Write short notes on (Any Two):									
	a) Types of head positions in insects									
	b) Binomial nomenclature and its rules									
	c) Functions of insect integument									
		厂		SECTI	ON 'B	,				
SECTION 'B' Q.11 a) State the exact location of the following parts in/on insect body:										
×	1) C		2) Malpighian tubu		•			•	rolium	
				ics .	3) 1011	115	ston s orga	11 4) A	ionum	
b) Fill in the blanks:										
1) Mites belong to the class										
2) National Bureau of Agricultural Insects Resources is located in										
3) is the segment of leg present between coxa and femur.										
4) Study of arrangement of setae is known as										

(P.T.O.)

Q.12 Match the pairs:

		•
•	Α	ď

B'

- 1) Honeybee
- a) Fringed wings
- 2) Plant bugs
- b) Halteres
- 3) Dungroller
- c) Tegmina wings
- 4) House fly
- d) Clavate antenna
- 5) Metallic beetle
- e) Hemelytra wings
- 6) Thrips
- f) Lamellate antenna
- 7) Butterfly
- g) Geniculate antenna
- 8) Cockroach
- f) Serrate antenna

