B.Sc. (Part-II) Semester-IV Examination APICULTURE (Bee Chemistry)

Time: Three Hours] [Maximum Marks: 80 **Note**:—All questions are compulsory and questions 2-7 carry equal marks. (A) Fill in the blanks: (1) Bee pollen collected from _____. 1/2 (2) is the bi product of honey bee. 1/2 (3) _____ is the property of honey. 1/2 (4) Honey from mixed Flora is _____. 1/2 (B) Choose appropriate answer: (1) Honey quality standards are fixed by _____. 1/2 (a) Agmark (b) Market (c) IUCN (2) _____ is the important constituent of honey. 1/2 (a) Glucose (b) Water (c) Granule _____ is one of the raw material of honey. 1/2 (a) Pollen (b) sucrose (c) nectar is the type of honey. 1/2 (4)(a) Unifloral (b) Solid honey (c) Artificial honey (C) Answer in one sentence: (1) Define mature honey. 1 1 (2) Define multifloral honey. (3) Define apiary honey. 1 (4) Define hygroscopocity of honey. 1 2. Describe chemical composition of nectar and how nectar converted into honey. 12 Discuss mature and immature honey. Which are the major components of honey? 12 Explain in brief: 4 (a) Unifloral honey and its significance 4 (b) Compositional variations of honey (c) Apiary honey. 4 OR 1 (Contd.) VTM-13402

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	(d) Properties of honey (any two)		4
	(e) Multifloral honey		4
	(f) Environmental factors and its effects on honey composition.		4
4.	Describe various properties of honey	in detail.	12
		OR	
	Discuss the Quality standards of hone	·y.	12
5.	Explain in brief:		
	(g) BIS specifications of honey.		4
	(h) Industrial uses of honey.		4
	(i) Bleaching of bees wax.		4
		OR	
	(j) Chemical composition of wax.		4
	(k) Domestic uses of honey.		4
	(l) Extraction of bees wax.		4
6.	Explain in brief:		
	(m) Method of pollen collection.		4
	(n) Applications of bee venom.		4
	(o) Method of bee venom collection		4
		OR	
	(p) Chemical composition of bee ver	iom.	4
	(q) Uses of bee pollen.		4
	(r) Principles of bee venom secretion	1.	4
7.	Describe in brief:		
	(s) Royal jelly origin.		4
	(t) Propolis		4
	(u) Royal jelly composition.		4
		OR	
	(v) Properties of Royal jelly.		4
	(w) Applications of propolis.		4
	(x) Royal jelly preservation methods.		4