22ZOU518N

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch – **ZOOLOGY**

APICULTURE

Time: Three Hours Maximum: 75 Marks

SECTION-A (10 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following bees is often referred to as the "little bee" or "dwarf bee"? a. *Apis dorsata* b. *Apis cerana indica* c. *Apis mellifera* d. *Apis florea*	K1	CO1
	2	The queen bee's stinger is different from a worker's bee. Infer the difference. a. Barbed b. Used for venom injection c. Used exclusively for laying eggs d. Smooth and reusable	K2	CO2
2	3	Choose the tool used for gentle removal of bees from a frame during inspection. a. Hive b. Honey extractor c. Bee brush d. Queen catcher	K1	CO1
	4	Relate a multipurpose tool used to pry apart hive components, scrape off propolis and lift frames in the honey comb. a. Bee brush b. Hive tool c. Drone trap d. Pollen trap	K2	CO2
3	5	Name a good nectar-yielding plant for honey bees from the following. a. Maize b. Sunflower c. Wheat d. Paddy	K1	CO1
	6	The colony division method in bee rearing is a. a. Natural method b. Mechanical method c. Artificial method d. Individual method	K2	CO2
4	7	Find the damage caused by wax moth to bee colony. a. Destroying combs and wax b. Eating nectar c. Attacking adult bees directly d. Stealing honey	K1	CO1
	8	Show the causative organism of Nosema disease of honey bee. a. Virus b. Fungus c. Bacterium d. Protozoan	K2	CO2
5	9	Find the uses of propolis from the following. a. Feed larvae b. Repair cracks in the hive c. Build honeycomb d. Store nectar	K1	CO1
	10	Infer the requirement needed for Beekeeping. a. Very large land b. High industrial setup c. Low investment d. Constant electricity	K2	CO2

SECTION - B (35 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Organize a comparative analysis of little bee and Dammer bee.	K3	CO3

Cont...

	(OR)			
	11.b.	Construct the structure of queen bee with a neat labelled diagram.		
2	12.a.	Analyze the importance of bee veil and gloves to handle the bee colony.	K4	CO4
	(OR)			
	12.b.	Examine the structure of decapping knife and add its uses in the bee rearing.		
3	13.a.	Build the importance of regular inspection of bee hives.	K3	CO3
	(OR)			
	13.b.	Develop the proper site location for successful apiculture.		
4	14.a.	Examine how a bee colony is maintained during the rainy season.	K4	CO4
	(OR)			
	14.b.	Analyze the causative organism and symptoms of American foulbrood in a bee colony.		
5	15.a.	Explain the importance of bees as pollinators in maintaining biodiversity and food production.	K5	CO5
	(OR)			
	15.b.	Explain the cost benefit analysis of maintaining a 100 – bee colony apiary.		

SECTION -C (30 Marks)

Answer **ANY THREE** questions

ALL questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Examine how beekeeping serves as a profitable hobby and as a cottage industry.	K4	CO4
2	17	Explain the structure of various parts of Newton's bee hive with a neat labelled diagram.	K5	CO5
3	18	Categorize the role of pollen and nectar yielding plants in successful beekeeping.	K4	CO4
4	19	Categorize the impact of natural enemies on honey production and colony health.	K4	CO4
5	20	Explain the pollen collection by bees and list out its composition and uses.	K5	CO5

Z-Z-Z END