

Exam Date & Time: 26-Sep-2020 (02:00 PM - 05:30 PM)



## PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins

MSc DEGREE EXAMINATION MAY 2020  
(Fourth Semester)

Branch - ZOOLOGY  
APICULTURE [18ZOP17]

Marks: 75

Duration: 210 mins.

### SECTION A

Answer all the questions.

- 1) The Indian honeybee is
  - (i) Apis cerema
  - (ii) A. dorsate
  - (iii) A. florea
  - (iv) Apis mellifera

(1)
  
- 2) 'Bee Milk' is known as
  - (i) Honey
  - (ii) Royal jelly
  - (iii) Bee venom
  - (iv) Bee wax

(1)
  
- 3) Natural home for honey bee is
  - (i) Comb
  - (ii) Cave
  - (iii) Cage
  - (iv) House

(1)
  
- 4) Usually, swarming occurs during
  - (i) Summer
  - (ii) Monsoon
  - (iii) Premonsoon
  - (iv) Post monsoon

(1)
  
- 5) Honeybee shows the \_\_\_\_\_ relationship with the plant.
  - (i) Parasitism
  - (ii) Commensalism
  - (iii) Neutralism
  - (iv) Mutualism

(1)
  
- 6) The study of Bee pollen is called
  - (i) Palynology
  - (ii) Entomology
  - (iii) Embryology
  - (iv) Cytology

(1)

- 7) Where does honeybee breed its eggs and brood its larvae?  
(i) Super chamber  
(ii) Lower chamber  
(iii) Drone Cello  
(iv) Supersedure (1)
- 8) The blood of honeybee is  
(i) Haemolymph  
(ii) Haemoglobin  
(iii) Lymph  
(iv) Malphadin (1)
- 9) The mother of the colony is  
(i) Drone  
(ii) Worker  
(iii) Queen  
(iv) All (1)
- 10) Royal jelly is secreted by  
(i) Queen bee  
(ii) Workerbee  
(iii) Drone bee  
(iv) None (1)

### SECTION B

**Answer all the questions.**

- 11) Discuss the various types of Honeybees. (7)
- a)  
[OR] Comment on Drone Bees. (7)  
b)
- 12) Write the importance of Beekeeping. (7)
- a)  
[OR] Give a brief account on different types of honey extractors. (7)  
b)
- 13) Enumerate the nectar and pollen yielding plants. (7)
- a)  
[OR] Mention the candidate species for commercial beekeeping and give reasons. (7)  
b)
- 14) Describe the viral diseases of honeybees. (7)
- a)  
[OR] Give an account on the most dangerous enemies of honeybees. (7)  
b)

- 15) List out the uses of honey. (7)
- a)
- [OR] Comment on Bee wax. (7)
- b)

### SECTION C

**Answer 3 out of 5 questions.**

- 16) Describe the structure, development and life-cycle of Queen bee. (10)
- 17) Discuss the equipment for handling the honeybees. (10)
- 18) Write an essay on the methods of setting colonies. (10)
- 19) Give an account on the maintenance of bee colony during summer and winter season. (10)
- 20) Discuss the Bee venom and Bee pollen. (10)

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