

**SH-III/ZOO/305/SEC-1/19****B.Sc. 3rd Semester (Honours) Examination, 2019-20****ZOOLOGY****Course ID : 32615****Course Code : SH/ZOO/305/SEC-1**

Course Title: Apiculture

**Time: 2 Hours****Full Marks: 40**

*The figures in the right hand side margin indicate full marks.  
Candidates are required to give their answers in their own words  
as far as practicable.*

1. Answer *any five* of the following: 2×5=10
  - (a) In which class and order the Honey bee belongs?
  - (b) Write down one Indian species and one European species (Scientific name) of Honey bee.
  - (c) Define Nature's Apiary in Air.
  - (d) What is Royal Jelly?
  - (e) What do you know about Super Sedure?
  - (f) Mention the number of chromosome of Drone?
  - (g) Name four Equipment's used in Apiculture?
  - (h) What is Nuptial Flight?
  
2. Answer any four of the following: 5×4=20
  - (a) Describe the characteristics features of worker Honey bee along with their functions. 3+2=5
  - (b) Define Brood cells? Mention the different types of cells or chambers of Honey comb. 2+3=5
  - (c) What is Swarming? Mention the reasons behind it. 2+3=5
  - (d) Mention the advantages and disadvantages of Improved method of Apiculture. 2½+2½=5
  - (e) Short notes on: 2½+2½=5
    - (i) Honey Dew
    - (ii) Queen Substance
  - (f) Write down the difference between Langstroth and Newton Box.
  
3. Answer *any one* of the following: 10×1=10
  - (a) Define Bee language? Name the scientist who first observed it. Describe one type of Bee dance with suitable figure. 2+1+7=10
  - (b) What is Honey flow period? Describe the different types disease and enemies of Honey bee and their control measures. 2+4+4=+410