

**2021**

**ZOOLOGY— HONOURS**

**Paper : SEC-A-1**

**(Apiculture)**

**Full Marks : 80**

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words  
as far as practicable.*

**Group-A**

1. Answer *any twenty* questions.

2×20

- (i) Why honeybees are considered as eusocial?
- (ii) Mention the shape of honeycomb cells.
- (iii) Which type of mouthpart is present in honeybee?
- (iv) What is round dance?
- (v) Name two hymenopteran enemies of bees.
- (vi) What is galleriasis?
- (vii) How do you identify a queen bee?
- (viii) What is supersedure?
- (ix) Name the causative agent of acarine disease.
- (x) What is antirobbing screen?
- (xi) What are mirror glands?
- (xii) What is brood chamber?
- (xiii) How swarming is controlled?
- (xiv) What is artificial feeding in beekeeping?
- (xv) What is fixed beehive?
- (xvi) State the structure and function of queen excluder.

**Please Turn Over**

- (xvii) What is bee bread?
- (xviii) State the disadvantages of Newton Beehive.
- (xix) Write the systematic position of honeybee upto class.
- (xx) What is bee space and alighting space?
- (xxi) What is royal jelly?
- (xxii) Give the scientific name of rock bee and European bee.
- (xxiii) How a drone is produced in a colony?
- (xxiv) Name two high pollen yielding plants.
- (xxv) What is nuptial flight?

### Group-B

2. Answer *any eight* questions.

5×8

- (i) How major and minor honey flow periods are determined? State their effect on honey yield.
  - (ii) Write a note on “Bee pasturage”.
  - (iii) Write a note on ‘Langstroth box’.
  - (iv) Mention the prospects of apiculture as cottage industry.
  - (v) Explain any one of the protozoan disease that affects the adult honeybee.
  - (vi) Write a note on ‘Bee venom’ and Propolis.
  - (vii) Elaborate the role of workers in a beehive.
  - (viii) Explain the nutritive and medicinal value of honey.
  - (ix) Discuss any two appliances used in beekeeping.
  - (x) What is lesser wax moth? Briefly describe its damage and control measures.
  - (xi) How bees use pheromones in communication?
  - (xii) Describe briefly the wax producing gland of honeybee.
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