

2 0 1 8

(CBCS)

(5th Semester)

ZOOLOGY

EIGHTH (A) PAPER

(Applied Zoology)

Full Marks : 75

Time : 3 hours

(PART : A—OBJECTIVE)

(*Marks : 25*)

The figures in the margin indicate full marks for the questions

SECTION—A

(*Marks : 10*)

Put a Tick (✓) mark against the correct answer in the corresponding brackets :

1×10=10

1. In a bee colony, the royal jelly is secreted by

(a) the queen ()

(b) worker bees ()

(c) drones ()

(d) soldiers ()

- 2.** Chemically, silk is basically composed of
- (a) fibroin and secretin ()
 (b) fimbrin and sericin ()
 (c) secretin and sericin ()
 (d) fibroin and sericin ()
- 3.** The part of the soil that has passed through the digestive tract of earthworms is called
- (a) aerobe () (b) faecal matter ()
 (c) drilosphere () (d) cast ()
- 4.** Pyrethroids are
- (a) insecticides () (b) fungicides ()
 (c) herbicides () (d) rodenticides ()
- 5.** -3 fatty acids in fish oil are derived from
- (a) bacteria () (b) animal fats ()
 (c) algae () (d) molluscs ()
- 6.** The most ideal alkalinity of pond water would be a pH of around
- (a) 9.6 () (b) 7.4 ()
 (c) 6.1 () (d) 5.8 ()
- 7.** A critically endangered fish in India is
- (a) *Squalus acanthias* ()
 (b) *Pristis pristis* ()
 (c) *Mustelus fasciatus* ()
 (d) *Glyphis gangeticus* ()
- 8.** To detect water current and vibrations, fish have
- (a) lateral lines ()
 (b) ampullae of Lorenzini ()
 (c) olfactory lobes ()
 (d) claspers ()

9. Cryopreservation involves

- (a) high temperature () (b) high pressure ()
(c) low temperature () (d) low pressure ()

10. The process of adjustment/adaptation to an environment is called

- (a) hypophysation () (b) acclimatization ()
(c) spawning () (d) osmoregulation ()

SECTION—B

(Marks : 15)

Write short notes on the following :

3×5=15

1. Nutritional components of honey

OR

Physical properties of silk

2. *Bacillus thuringiensis* as insecticide

OR

Herbicides

3. Algal bloom

OR

Composite fish culture

4. Threatened fishes

OR

Culturable fishes

5. Ornamental fishes

OR

Broadcast spawners

(PART : B—DESCRIPTIVE)

(Marks : 50)

The questions are of equal value

1. Describe the various methods in beekeeping.

OR

What are the most important culturable silkworms? Describe the various methods of rearing of silkworms.

2. Discuss the principle and process of integrated pest management.

OR

What are the types of composting worms? Explain the process and applications of vermicomposting.

3. Give an account on the structure and maintenance of fish pond.

OR

Describe the principle and practice of integrated fish farming.

4. Explain the types of aquatic adaptation in fishes.

OR

Write an essay on predatory and weed fishes and their control.

5. Explain the process of fish seed production.

OR

Discuss the technique of induced breeding.

★ ★ ★