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(CBCS)

(5th Semester)

ZOOLOGY

EIGHTH (C) PAPER

(Applied Zoology)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

(SECTION : A—OBJECTIVE)

(Marks : 10)

Tick (✓) the correct answer in the brackets provided :

1×10=10

1. Which of the following yields the most honey per comb?

- (a) *Apis dorsata* ()
- (b) *Apis indica* ()
- (c) *Apis mellifera* ()
- (d) *Apis florea* ()

2. Which one of the following originated from Assam?

- (a) Mulberry silkworm ()
- (b) Eri silkworm ()
- (c) Muga silkworm ()
- (d) Tasar silkworm ()

3. Fumigants are

- (a) chemicals used for insect sterilization ()
- (b) repellents used to keep insects away ()
- (c) pathogenic microbes ()
- (d) chemical insecticides ()

4. The increasing concentration of a substance, such as a toxic chemical, in the tissues of organisms at successively higher levels in a food chain is known as
- (a) blooming ()
 - (b) pesticide drift ()
 - (c) biomagnification ()
 - (d) bombardment ()
5. Inland fisheries are
- (a) deep sea fishing ()
 - (b) capturing fish from the sea coast ()
 - (c) raising and capturing fishes in freshwater ()
 - (d) rearing fish in oceans ()
6. The two types of *Hapas* are
- (a) oval and rectangular ()
 - (b) fixed and floating ()
 - (c) earthen and cemented ()
 - (d) larval and adult ()
7. In hill stream fishes, in general, scales become greatly reduced or absent on
- (a) the ventral surface ()
 - (b) the dorsal surface ()
 - (c) the lateral surface ()
 - (d) the caudal peduncle ()
8. Fishes which are uneconomical, small-sized, naturally occurring or introduced accidentally in ponds along with fish seeds are called
- (a) culturable fishes ()
 - (b) parasites ()
 - (c) predatory fishes ()
 - (d) weed fishes ()
9. Treatment of fish with salt is known as
- (a) smoking ()
 - (b) drying ()
 - (c) canning ()
 - (d) brining ()

10. Ornamental fishes are broadly classified into

- (a) egg layers and egg bearers ()
- (b) egg layers and livebearers ()
- (c) egg carriers and livebearers ()
- (d) egg buriers and livebearers ()

(SECTION : B—SHORT ANSWER)

(Marks : 15)

Write on the following :

3×5=15

UNIT—I

1. Structure and composition of beehive

OR

2. Economic importance of silkworms

UNIT—II

3. Methods in vermicomposting

OR

4. Vermicomposting species

UNIT—III

5. Significance of water temperature

OR

6. Paddy cum fish culture

UNIT—IV

7. Adhesive device in hill stream fishes

OR

8. Endangered fish species

UNIT—V

9. Factors for spawning of fishes

OR

10. Ornamental fishes

(SECTION : C—DESCRIPTIVE)

(Marks : 50)

Answer the following :

10×5=50

UNIT—I

1. Discuss the type of bees. How are they cultured?

4+6=10

OR

2. Give a detailed account on the rearing method of silkworm.

10

UNIT—II

3. Define pest. Discuss the different types of pest control.

2+8=10

OR

4. Give an account on integrated pest management. Add a note on its advantage and disadvantage.

6+4=10

UNIT—III

5. Discuss the structural layout of a fish farm.

10

OR

6. Give an account on integrated fish farming.

UNIT—IV

7. Discuss the adaptation of fishes in hill streams.

10

OR

8. Give an account on the important cultivable species of fish.

UNIT—V

9. Explain induced breeding of fish by hypophysation.

10

OR

10. Describe the methods of preservation and processing of fish.
