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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2015

Sixth Semester

Choice Based Core Course—ECONOMIC ZOOLOGY

(Common for B.Sc. Zoology, Model I, Model II)

[2012 Admissions]

Time : Three Hours

Maximum Weight : 25

Part A (Objective Type Questions)

Answer all questions.

Each bunch of four questions carries a weight of 1.

BUNCH I

1. The chemical used for providing protection to vermibed from ants is :
 - (a) Chloramphenicol.
 - (b) Griseofulvin.
 - (c) Chlorpyriophosphate.
 - (d) DDT.
2. The chemical measure of controlling pest :
 - (a) Use of pesticides.
 - (b) Hand pinking.
 - (c) Crop rotation.
 - (d) Prunning and thinning.
3. The sterile female in the honey-bee colony :
 - (a) Queen.
 - (b) Worker.
 - (c) Drones.
 - (d) All of them.
4. The gold fish :
 - (a) *Macropodus*.
 - (b) *Carassius*.
 - (c) *Danio*.
 - (d) *Brachydanio*.

BUNCH II

5. Rice swarming caterpillar :
 - (a) *Nephantis*.
 - (b) *Spodoptera*.
 - (c) *Nilaparvata*.
 - (d) *Leptocorisa*.

Turn over

6. Coconut pest :

- (a) *Spodoptera*. (b) *Nilaparvata*.
 (c) *Aceria*. (d) *Sitophilus*.

7. Brine shrimp :

- (a) *Artemia*. (b) *Aceria*.
 (c) *Pterophyllum*. (d) None of these.

8. Rock bee :

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

BUNCH III

9. The group of worker bee which produce honey :

- (a) Brewers. (b) Builders.
 (c) Guards. (d) Store keepers.

10. Water flea :

- (a) *Daphnia*. (b) *Artemia*.
 (c) *Tubifex*. (d) *Paramecium*.

11. The queen bee substance :

- (a) Inhibits development of ovaries in worker bee.
 (b) Attracts drones.
 (c) Initiates swarming.
 (d) Perish the colony.

12. Mellitin :

- (a) A protein of bee venom. (b) Contact of bee pasture.
 (c) Protein content in honey. (d) None.

BUNCH IV

13. Pearl spot :

- (a) *Etroplus*. (b) Rohu.
 (c) *Sardinella*. (d) *Danio*.

14. Bee dance :

- (a) Food and Reproduction. (b) Respiration and excretion.
 (c) Death of colony. (d) Arise new colony.

15. Pollen brushes in honey-bee :
- (a) Metathoracic leg. (b) Thoracic leg.
(c) Mandible. (d) Proboscis.
16. Systemic poison :
- (a) HCH. (b) DDT.
(c) Parathion. (d) Hydrogen cyanide.

(4 × 1 = 4)

Part B (Short Answer Questions)

Answer any five questions.

Each question carries a weight of 1.

17. Potential pest and key pest.
18. Pollen basket and pollen brush.
19. Bee swarming.
20. Honey comb.
21. Biological control of pest.
22. Vermicompost and vermiwash.
23. Bee pasturage.
24. Systemic and contact poison.

(5 × 1 = 5)

Part C (Short Essays/Problem Solving Type)

Answer any four questions.

Each question carries a weight of 2.

25. What are the modifications of worker bees ?
26. Comment on bee swarming and bee dance.
27. Explain the nature of damage to the host plant and control of pests in coconut.
28. Differentiate between extensive and intensive aquaculture.
29. Explain the uses of honey.
30. Classify insecticides based on their chemical nature.

(4 × 2 = 8)

Turn over

Part D (Essay Type)

*Answer any two questions.
Each question carries a weight of 4.*

31. Give an account on the social organization of honey-bees.
32. What is IPM ? Enlist the features, contrivances and advantages of IPM.
33. Give an account on the aquarium management for ornamental fish farming.

(2 × 4 = 8)