Total number of printed pages-7

3 (Sem-3/CBCS) ZOO SE1/SE2

2021

(Held in 2022)

ZOOLOGY

(Skill Enhancement Course)

Answer questions either from SE-3014 or from SE-3024

Paper: ZOO-SE-3014

(Ornamental Fish and Fisheries)

Full Marks: 50

Time: Two hours

The figures in the margin indicate full marks for the questions.

- 1. Choose the correct answers: (any four)

 1×4=4
 - (a) Xenentodon cancila is an example of
 - (i) classified ornamental fish
 - (ii) carp
 - (iii) non-classified ornamental fish
 - (iv) barb

- (b) The chromatophores responsible for imparting yellow colour to fishes is
 - (i) iridophores
 - (ii) xanthophores
 - (iii) erythrophores
 - (iv) melanophores
- (c) Trade name of ornamental fish Chela laubuca is
 - (i) Indian glass barb
 - (ii) mola carplet
 - (iii) rosy barb
 - (iv) silver hatchet
- (d) Fin and tail rot disease in aquarium fishes is caused by
 - (i) bacteria
 - (ii) fungus
 - (iii) protozoa
 - (iv) helminth worm
- (e) Commercially Chara sp is known as
 - (i) tape grass
 - (ii) stonewort
 - (iii) milfoil
 - (iv) fanwort
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- (f) Colisa fasciata is an ornamental fish of the fish group
 - (i) carp
 - (ii) barb
 - (iii) glass fish
 - (iv) gourami
- 2. Answer the following questions: (any three)
 - (a) Define classified ornamental fish. Give one example. 1+1=2
 - (b) What is sexual dimorphism?
 - (c) What are carotenoids? Name one natural source of carotenoid. 1+1=2
 - (d) What are planktons? Mention one significance of planktons in an aquarium. 1+1=2
- 3. Write short notes on: (any two) 5×2=10
 - (a) Biological filters
 - (b) Ornamental fish diversity of North-Eastern India
 - (c) Feed formulation
 - (d) Lighting devices in an aquarium

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Contd.

(a) Describe briefly the management practices in an aquarium. What is fecundity? Write a brief note on natural breeding of Trichogaster species. 2+8=10 Give an account on non-infectous disease found among ornamental fishes. Mention three preventive measures for spread of diseases in an aquarium. 7+3=10 Describe in brief the natural food of ornamental fish. 10 What is wetland? Give an account of ornamental plant diversity found in wetlands. Mention two significances of plants in an aquarium. 1+7+2=10 fainy tribo What are chromatophores? Describe the strategies for maintenance of natural colour of ornamental fish. 2+8=10

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Answer the following questions: (any three)

10×3=30

Paper: ZOO-SE-3024
(Apiculture)

Full Marks: 50

Time: Two hours

The figures in the margin indicate full marks for the questions.

1.	Fill	in the blanks: (any four) 1×4=4
	(a)	The class of honey bee is
	(b)	The most prevalent contagious disease among bee is
Jan T	(c)	season is suitable for bee population.
	(d)	Generally the queen takes days to complete the life cycle.
6:	(e)	The main constituents of honey is
		The basal part of modern hive is known as,
2.	Write	e briefly on the following: (any three) 2×3=6
	(a)	Functions of worker bee
	(b)	Langstroth frame of hive
(Sen	1-3 /CB	CS ZOO SE 1/SE 2/G 5 Contd.

- (c) Apimondia
- (d) Blood of bee
- Write short notes on the following: (any two) 5×2-10
 - (a) Bechire
 - (b) Bee dance
 - (d) Apiculture as cottage industry
 - (d) Newton model of hive
- Answer the following questions: fany three! 10+3-30
 - (a) Elaborate social organization in holesy bec. 10
 - (b) What are different castes of honey Lie? Write about the life history of honey bee with suitable diagram.

2+8+10

(c) What are different diseases of honey bee? Mention the preventive measures of these diseases in a bechive.

4+6-10

(d) Why is artificial bee rearing required? Ulhistrate your answer with different models of hive. 2+8-10 (e) Write about different tools required to start a beehive.

Describe the indigenous and modern methods of extraction of honey.

5+5-10

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3 (See -3 /CSCS) 200 SE 1/SE 2/G 7

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