As per SPPU New CBCS Syllabus

**K. T. S. P. Mandal’s**

**Hutatma Rajguru Mahavidyalaya Rajgurunagar 410 505.**

**Department of Zoology**

**T. Y. B. Sc.**

**ZO 3510: Aquarium Management Question Bank**

**Semester V**

 **By**

**Prof. Dumbare Y.K.**

**Define and Explain**

(a) Define Aquariculture.

(b) What are the benefits of raising ornamental fish?

 (c) What are the necessary components of artificial fish feed?

(d) Name one National and one State Fishery Institutes of India.

(e) Write two Strategies for improvement of ornamental fish industry in India.

(f) Why Carbonate Hardness (KH) is measured for the maintenance of an aquarium?

(g) Write the common and scientific names of two commercially important indigenous ornamental fishes.

 (h) What do you mean by live-bearers?

(i) Cite an example of sexual dimorphism in ornamental fishes.

 (j) Name two live fish feed commonly used in aquarium fish keeping.

(K)Which one of the following ornamental fishes is exotic? (a) Zebra fish (b) Glass fish (c) Honey Gourami ( (d) Sail Fin Molly

(l)Which one of the following ornamental fishes is an egg-layer? (a) Neon Tetra (b) Marble Molly (c) Platy ( (d) Swordtail

(m) What is the purpose of using aerators in aquarium?

 (n) Write the name of an antibacterial agent used in fish transportation.

 (o) How do you remove chlorine from water?

(p) Name one rooted and one floating plant used in aquarium.

(q) Give scientific name of Angel fish.

(r) What is living capsule of nutrition?

(s) What is the generally accepted ratio of male and female fish for breeding purpose?

(t) Give an example of invasive ornamental fish.

**Write Short notes**

1. Briefly describe the process of artificial fish feed production.
2. Mention the opportunities for self-employment in aquarium fish industry of India.
3. Add a note on daily aquarium maintenance routine.
4. Elucidate the social behaviour of any one of the following live-bearer. 5 (i) Guppy; (ii) Molly; (iii) Swordtail.
5. Discuss the management of Nursery pond
6. Write about the role of small intestine in chicken.
7. Elucidate briefly the potential scope of the aquarium fish keeping industry as a cottage industry
8. Analyze the potential of aquarium fishes as larval predators.
9. Describe the common characteristic features of molly and anemone fish.
10. Name the causative agent, symptoms and treatment measures of two protozoan diseases.
11. Outline the process of Artemia culture
12. What are ornamental fishes? Mention the reason for keeping them in aquarium culture.
13. Write scientific names of two exotic and two endemic species of aquarium fishes.
14. Give an account of the function of aquarium filters.
15. Analyse the potential of aquarium fishes as larval predators.
16. Write a short note on physico-chemical properties essential for the maintenance of an aquarium. f) Give a brief account on the potential scope of aquarium fish keeping industry as a cottage industry.
17. Mention the characteristics of an aquarium fish tank.
18. What are the basic requirements to start ornamental fish farming business
19. Mention the techniques of transportation of brood fish.
20. Write a short note on formulative fish feed.
21. ) Write a short note on stocking density of aquarium.
22. Write brieflyon invasive species.
23. Classify the natural live feed organisms with examples.
24. Write about common characteristics of gold fishes
25. Write a short note on sexual dimorphism of Angel fish.
26. Mention the factors associated with fish transport.

Long Answer Questions:-

1. What do you mean by open and closed system of fish transport? Mention the principles and factors which are associated with fish transport. How do you transport brood fish?
2. Write down the essential accessories that are required for an aquarium. Mention the vital parameters to test routine aquarium maintenance. What are the basic requirements to start ornamental fish farming business?
3. How would you build a good aquarium? Which factors will affect the water quality of an aquarium?
4. Write about the preparation procedure of formulated fish feed. What is the composition of fish food that are used in aquariums?