



Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, April 2019**  
**First Degree Programme under CBCSS**  
**ELECTIVE COURSE**  
**ZO 1661.2 : Ornamental Fresh Water Fish Production**  
**(2015 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

*Instruction : Draw diagrams wherever necessary.*

I. Answer **all** the following questions. (In **one** or **two** sentences **one** mark **each**) :

- 1) Common name of *Lepidocephalus thermalis*.
- 2) Give any method to provide oxygen in an aquarium.
- 3) How are the glass panes of an aquarium bonded ?
- 4) Biological filtration.
- 5) Live fish feed.
- 6) Fish Chromatophores.
- 7) Chemical used as a disinfectant in aquaria.
- 8) Example of an exotic oviparous fish.
- 9) E.U.S.
- 10) Water level in fish tanks.

**(10×1=10 Marks)**

II. Answer **any eight** of the following (**Not** to exceed **one** paragraph. **Each** carries **two** marks) :

- 11) Give the scientific name of Red Oranda.
- 12) Causative organism for the White Spot disease.
- 13) Mention the significance aerators in an aquarium.
- 14) Give any one reason for fish gasping or breathing heavily after a water change.



- 15) Comment on aquarium plants.
- 16) Explain planting techniques done in an aquarium.
- 17) Give two examples of Catfishes with their identification features.
- 18) List the indigenous ornamental fishes of Kerala.
- 19) Comment on transportation of ornamental fishes.
- 20) How is algal growth controlled in an aquarium ?
- 21) What is meant by Compatible fish species ?
- 22) List any three factors affecting water quality. **(8×2=16 Marks)**

III. Answer **any six** of the following. (**Not** to exceed **120** words. **Each** carries **four** marks) :

- 23) State the bed setting procedure for an aquarium.
- 24) Comment on the chemical filtration in fish tanks.
- 25) Give the conditions ideal for fish breeding and rearing.
- 26) Comment on fish hybridization technique.
- 27) Write a short note on aquarium accessories.
- 28) Mention the role of Qzone in an aquarium.
- 29) Write a short note on any four fish parasites.
- 30) Distinguish between a male and female Melon barb.
- 31) Name any four fresh water Live-bearers. **(6×4=24 Marks)**

IV. Answer **any two** of the following (**Each** carries **fifteen** marks) :

- 32) Elaborate on the design and construction of Aquaria.
  - 33) Write an essay on common diseases of aquarium fishes and their management.
  - 34) Explain the breeding and rearing of ornamental fishes.
  - 35) Describe Sexual Dimorphism in Fishes giving suitable examples. **(2×15=30 Marks)**
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