

**U.G. 3rd Semester Examination - 2021****ZOOLOGY****[HONOURS]****Course Code : BZOOSEHT305****Course Title : Aquarium Fish Keeping**

Full Marks : 50

Time : 2 Hours

*The figures in the right-hand margin indicate marks.*

Answer all the questions by choosing correct alternative:

2×25=50

1. The term 'aquarium' was coined by
  - a) Tasso Tayung
  - b) Schaefer
  - c) Philip Henry Gosse
  - d) None of the above
2. Which one of the following ornamental fishes is an egg-layer?
  - a) Neon Tetra
  - b) Platy
  - c) Marble Molly
  - d) Swordtail
3. The main distribution centre (about 50% of total export) the ornamental fish marketing in India is–
  - a) Kerala
  - b) Andhra-Pradesh
  - c) Kolkata
  - d) Chennai
4. The male gender of this fish has a large pointed fin-extension on its tail. They are live bearers and come in a multitude of colors.
  - a) Iridescent shark
  - b) Swordtail
  - c) Serpae tetra
  - d) Platy
5. What is the proper pH range of saltwater aquarium?
  - a) 7.6-8.4
  - b) 6.8-7.2
  - c) 6.8-7.8
  - d) 6.5-8.0
6. Drying of artificial fish feed is usually done in–
  - a) 70°C to 120°C
  - b) 30°C to 80°C
  - c) 100°C to 150°C
  - d) 180°C to 230°C
7. Which is the leading country in export of ornamental fishes?
  - a) USA
  - b) Singapore
  - c) India
  - d) UK
8. Which of the following statements is wrong in respect to the development of aquarium fish keeping industry?
  - a) "Systematic studies on the different aspects of feeding and reproductive biology of indigenous ornamental fish"
  - b) Commercial farms with necessary infrastructural facilities and due support by technical experts are not necessary to be set up for mass production of these fishes"
  - c) "Culture, breeding, and marketing of indigenous ornamental plants should be given due emphasis"

*[Turn over]*

- d) "Ornamental fish breeding and rearing unit should have constant supply of good source of water and electricity"
9. This fish is known as being an effective insectivore in areas known for disease spread by mosquitoes.
- a) Swordfish                      c) Tinfoil Barb  
b) Corydoras Panda              d) Guppy
10. Usually which of the following is used to disinfect the aquarium?
- a)  $ZnSO_4$                           c)  $NaHCO_3$   
b)  $H_2SO_4$                           d)  $KMnO_4$
11. What is the common name of *Poecilia sphenops*?
- a) Short-finned Molly  
b) Sail-fin Molly  
c) Mexican Sail-fin Molly  
d) Gold Molly
12. Which one of the following ornamental fishes is exotic?
- a) Zebra fish                      c) Glass fish  
b) Honey Gourami              d) Sail Fin Molly
13. Causative agent of 'Dropsy' disease in aquarium fishes–
- a) Fungus                          c) Protozoa  
b) Bacteria                        d) None of the above

14. Paddle wheel aerator is an example of which type of aerator–
- a) Surface                          c) Turbine  
b) Diffuser                        d) Gravity
15. Find the correct statements–
- a) Male *Xiphophorus helleri* has pronounced sword like projection on caudal fin.  
b) Female sword tail has sword on its tail  
c) Female *Poecilia reticulata* is smaller than male  
d) None of the above
16. Central Institute of Freshwater Aquaculture –
- a) Bhubaneswar, Odisha  
b) Tiruvananthapuram, Kerala  
c) Puducherry, Tamil Nadu  
d) Kozhikode, Kerala
17. The glass-plates of a home aquarium is sealed by–
- a) Agar Glue  
b) Polysulfide sealant  
c) Silicon Rubber Sealant  
d) Flour Glue
18. This is one of the best known saltwater fishes in the world. It is famous for its symbiotic relationship with anemones in tropical reef systems.
- a) Puffer                            c) Clownfish  
b) Mandarin                      d) Ancicstrus

19. Name a larvivorous aquarium fish—
- a) *Acipenser* sp                      c) *Clarias batrachus*  
b) *Gambusia affinia*                d) *Lates calcarifer*
20. Which one of the following fishes is reared in heated aquarium?
- a) Gold fish                              c) Kissing Gourami  
b) Black Skirt Tetra                  d) Neon Tetra
21. How do you tell if a gold fish is male or female?
- a) The female varieties tend to be slightly more rounded and bigger and have larger vent than males.  
b) Males are bigger and have smaller anal opening than females  
c) Females are smaller and bulky and have smaller vent than the males.  
d) Both (b) & (c)
22. Micro-encapsulated feed is more advantages because
- a) They do not pollute water  
b) Efficient nutrients delivery  
c) Handling is easy  
d) Storage is easy
23. Enrichment with  $\omega$ -3 fatty acids are mostly done in
- a) Pelleted feeds                      c) Live feeds  
b) Dry feed                              d) All of the above
24. What is the name of the bacteria that converts nitrites to nitrates?
- a) Nitrosomonas                      c) Nitrobacter  
b) Ammonia                            d) Water
25. What is the stripping method of breeding of fish?
- a) The females and males brooders are injected with fish pituitary hormone and then allowed to mate.  
b) The vent region of the females are gently pressed so the eggs will ooze out and then fertilized.  
c) Two males and one female brooder are selected and released in the breeding tank.  
d) None of the above.
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