

FYUG PROGRAMME EXAMINATIONS, NOVEMBER 2024

(2024 Admission Regular)

SEMESTER I – MDC (ZOOLOGY)

ZO1MDC01B24 - ORNAMENTAL FISH FARMING

Time: 45 mnts.

Maximum Marks: 35

Answer all the 35 questions. Choose the correct option.

Q.No:	QUESTIONS	Ans	CO	LEVEL
1.	The scientific name of Guppy is _____. a. <i>Poecilia reticulata</i> b. <i>Betta splendens</i> c. <i>Xiphophorus hellerii</i> d. <i>Carassius auratus</i>		1	R
2.	Bubble nests are created by _____. a. Betta b. Guppy c. Goldfish d. Mollies		2	R
3.	Name the small, fleshy fin found in some species like tetras and catfish, located between the dorsal and caudal fins. a. Pectoral fin b. Adipose fin c. Pelvic fin d. Anal fin		2	U
4.	A typical fish heart have chambers. a. One b. Two c. Three d. Four		2	U
5.	What is the function of the swim bladder in fish? a. Digestion b. Oxygenation c. Buoyancy control d. Reproduction		2	R
6.	_____ is the art of arranging aquatic plants, rocks, and other elements in an aquarium a. Aquaponics b. Aquascaping c. Hydroponics d. Terrarium Design		1	R
7.	What is the term for fish swimming together for protection and improved foraging efficiency? a. Schooling b. Shoaling c. Migration d. Nesting		2	U
8.	What type of water conditions do tetras require for successful reproduction? a. Hard, alkaline water b. Soft, acidic water c. Brackish water d. Cold, fresh water		2	R
9.	Which of the following groups includes examples of indigenous ornamental fish species found in India? a. Cyprinids, Loaches, Salmonids, Sharks b. Cichlids, Anabantids, Catfish, Loaches c. Trout, Cichlids, Tetra, Anabantids d. Anabantids, Catfish, Eels, Rays		1	U
10.	What term describes the period from the 1930s to the 1950s when the hobby of keeping ornamental fish gained popularity? a. The Aquarium Revolution b. The Early Hobbyist Movement c. The Modern Aquarist Era d. The Fishkeeping Renaissance		1	R
11.	What does the scientific name <i>Amphiprion</i> refer to?		1	R

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	a. A type of freshwater fish b. A genus of clownfish c. A species of coral d. A family of marine invertebrates			
12.	In the reproductive strategy known as mouthbrooding, which of the following statements is true? a. Both parents always participate in mouthbrooding, with one incubating the eggs while the other guards the territory. b. The fertilized eggs are incubated in the mouth of one parent to protect them from predators, often by the female but sometimes by the male. c. Mouthbrooding occurs only in freshwater fish species, where eggs are incubated within nests built by the parents. d. During mouthbrooding, fertilized eggs are immediately attached to surfaces within the aquarium for protection.		2	U
13.	In a community aquarium, what strategy allows multiple fish species to coexist without intense competition? a. Aggressive behavior b. Resource partitioning c. Territoriality d. Predation		2	U
14.	What type of foods do Mollies (<i>Poecilia</i> spp.) particularly appreciate in their diet? a. Only meaty foods b. A variety of plant-based foods, including spirulina flakes c. Exclusively algae d. Processed fish pellets only		2	U
15.	In egg scattering, where does fertilization occur? a. Inside the parent's body b. In a nest c. Externally in the water d. Inside the eggs		2	U
16.	Which fish is often referred to as "Miss Kerala"? a. Koi b. Red Line Torpedo Barb c. Angelfish d. Platies		1	R
17.	Which of the following structures allows certain fish to breathe atmospheric air? a. Operculum b. Labyrinth organ c. Swim bladder d. Lateral line		2	U
18.	Which of the following is a characteristic of livebearers? a. They lay eggs b. They give birth to live young c. They require saltwater d. They have external fertilization.		2	R
19.	Which type of food is best for pregnant guppies? a. Flakes only b. Frozen food c. Live food and high-quality flakes d. Pellets only		3	U
20.	How can you tell if a guppy is pregnant? a. It changes color b. Its fins become longer c. It develops a gravid spot d. It starts swimming faster.		3	A
21.	Which water conditions are best for breeding angelfish? a. High pH and low hardness b. Low pH and soft water c. Neutral pH and hard water d. Salty water.		3	R
22.	What is a common issue when breeding guppies in a community tank? a. Overheating b. Aggressive behaviour c. Predation on fry d. Low oxygen levels.		3	R

Q.No:	QUESTIONS	Ans	CO	LEVEL
23.	What is the best approach to raising angelfish fry after hatching? a. Feed them adult food immediately b. Provide finely crushed flakes or liquid fry food c. Leave them to fend for themselves d. Do not feed them for the first week.		3	U
24.	How does high salinity generally affect freshwater fish? a. Enhances growth b. Causes stress or death c. Improves reproduction d. Increases appetite.		2	R
25.	are the cheap natural sources of energy for fishes. a. Carbohydrates b. Fats c. Protein d. Vitamins		2	R
26.	Which method is commonly used to monitor pH levels in water? a. Dissolved oxygen meter b. Temperature gauge c. Salinity Refractometer d. pH meter or test strips.		3	U
27.	What is the impact of temperature fluctuations on breeding fish? a. Increases spawning success b. Enhances fry survival c. Causes stress and may inhibit spawning d. Improves water clarity.		3	U
28.	 also known as brine shrimp inhabit salt pans of high salinity a. Artemia b. Daphnia c. Moina d. Infosuria		2	R
29.	Chironomous larvae are also called as a. Tubifex worms b. Pupa c. Glow worms d. Blood worms.		2	U
30.	The source for Vitamin B complex in artificial feed of fish is a. Wheat b. Rice bran c. soya d. clam meal.		2	R
31.	The principle behind conditioning is that a. before packing, the fish should rid themselves of all food existing at different stages of digestion in their alimentary canal b. become accustomed to the conditions of overcrowding prevailing during transport c. both a & b d. None of the above.		3	U
32.	Red patches appear on skin and gills turn brown are symptoms of a. Gyrodactylosis b. Costiasis c. Chilodonella infestation d. None of the above.		3	R
33.	What is the primary goal of a quarantine period for newly acquired fish? a. To increase their growth rate b. To enhance feeding behaviour c. To improve their coloration d. To observe for signs of disease.		3	U
34.	Which material is commonly used for packing fish in transport bags? a. Plastic wrap b. Styrofoam c. Polyethylene bags d. Cardboard boxes.		4	R
35.	What is a crucial factor for sustaining income generation in the ornamental fish business? a. Exclusive focus on one species b. Diversifying product offerings and services c. Ignoring customer feedback d. Reducing marketing efforts.		4	U

(35x1=35)

CO: Course Outcomes Level: R – Remember, U – Understand, Ap- Apply, An- Analyze, E- Evaluate, C- Create