

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION MAY 2026
(Sixth Semester)**

Branch- ZOOLOGY

MAJOR ELECTIVE COURSE - II ORNAMENTAL FISH BREEDING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry EQUAL marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	The ideal pH for most ornamental fishes is: (i) 4–5 (ii) 6.5–7.5 (iii) 8.5–9.5 (iv) 9–10	K1	CO1
	2	The device used to increase dissolved oxygen in an aquarium is: (i) Aerator (ii) Heater (iii) Hood (iv) Thermometer	K2	CO1
2	3	Total hardness of water is mainly due to: (i) Sodium (ii) Potassium (iii) Calcium & Magnesium (iv) Iron	K1	CO2
	4	Which plant is commonly used in an aquarium? (i) Hydrilla (ii) Mango (iii) Neem (iv) Lotus tree	K2	CO2
3	5	Guppy belongs to: (i) Egg layer (ii) Live bearer (iii) Marine fish (iv) Predator fish	K1	CO3
	6	Goldfish belongs to the family: (i) Cichlidae (ii) Characidae (iii) Poeciliidae (iv) Cyprinidae	K2	CO3
4	7	Phytoplankton are: (i) Fish larvae (ii) Insects (iii) Microscopic plants (iv) Worms	K1	CO4
	8	Artemia belongs to: (i) Zooplankton (ii) Phytoplankton (iii) Mollusca (iv) Annelida	K2	CO4
5	9	Fin rot disease is caused by: (i) Virus (ii) Plants (iii) Algae (iv) Bacteria	K1	CO5
	10	Oxygen is supplied in packing bags using: (i) Nitrogen (ii) Helium (iii) Carbon dioxide (iv) Oxygen cylinder	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the construction method and the setup of a fish tank.	K2	CO1
		(OR)		
	11.b.	Illustrate the accessories used in an aquarium and mention their functions.		
2	12.a.	Interpret the importance of water quality parameters in ornamental fish culture.	K2	CO2
		(OR)		
	12.b.	Demonstrate the methods to maintain pH and dissolved oxygen in an aquarium.		
3	13.a.	Classify freshwater ornamental fishes with suitable examples.	K3	CO3
		(OR)		
	13.b.	Explain brood stock management practices in ornamental fish.		
4	14.a.	Outline the mass culture techniques of phytoplankton and zooplankton.	K3	CO4
		(OR)		
	14.b.	Apply the principles of artificial feed formulation for ornamental fishes.		
5	15.a.	Explain the different breeding methods of ornamental fish.	K3	CO5
		(OR)		
	15.b.	Solve the problems encountered during the packing and transportation of live fish.		

SECTION - C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the factors influencing successful aquarium management.	K4	CO1
2	17	Evaluate the impact of water quality deterioration on ornamental fish health.	K5	CO2
3	18	Compare and justify the breeding behaviour of live bearers and egg layers.	K4	CO3
4	19	Design a cost-effective live feed production unit for an ornamental fish hatchery.	K6	CO4
5	20	Propose a business plan for commercial ornamental fish farming in India.	K6	CO5

Z-Z-Z

END