REV-01
MSZ/07/12

2025/11

SET A

M.Sc. ZOOLOGY
THIRD SEMESTER
FISH AND FISHERY BIOLOGY-I
MSZ-303(C)
[USE OMR FOR OBJECTIVE PART]

Duration: 1.30 hrs. **Full Marks: 35**

Objective

Time: 15 min. **Marks: 10**

Choose the correct answer from the following: *1X10=10*

1. Neurocranium in elasmobranch can be divided into _____ regions.
   a. TWO b. THREE
   c. FOUR d. FIVE

2. Which of the following has a kidney fused on the posterior side only?
   a. Anguilidae b. Mugilidae
   c. Syngnathidae d. None of the above

3. A caudal vertebrae in modern teleost have a median depression on ____ sides
   a. All sides b. Dorsal
   c. Ventral d. Lateral

4. Gill rakers are broad shaped in _____ fishes.
   a. Herbivorous b. Carnivorous
   c. Planktivorous d. Detritus feeders

5. Retia mirabilia related to _____.
   a. Gills b. Gas bladder
   c. Fins d. Stomach

6. Which of the following is not a part of teleost swim bladder?
   a. Submucosa b. Muscularis mucosa
   c. Tunica externa d. Tunica interna

7. pH of teleost stomach is _____.
   a. 3.5 b. 4.7
   c. 5.6 d. 8.3

8. GaSI is related to _____ of fish.
   a. Feeding b. Reproduction
   c. Homing d. Maturity

9. _____ is an omnivorous fish.
   a. *Puntius sarana* b. *Mystus seenghala*

c. *Catla catla*
d. *Hilsa ilisha*

10. Which among these is not a part of freshwater teleost kidney?
    a. Ciliated intermediate segment
    b. Collecting duct
    c. Proximal segment
    d. Renal corpuscle

-- --- --

(Descriptive)

Time : 1 hrs. 15 min. **Marks : 25**

[Answer question no.1 & any two (2) from the rest]

1. Write about the skeletal system of teleost with diagrams. 5

2. Discuss elaborately with diagrams about the various types and functions of air bladder in fishes. 10

3. Write about the modern classification with examples in each category. 10

4. Discuss the different functions of kidneys in freshwater teleost with a diagram. 10

5. Write about the digestive physiology of *Clarias batrachus*. 10

= = *** = =