GSQ/M-20　　　　　**1760**

ZOOLOGY

Paper I

Aquaculture and Pest Management-I

Time : Three Hours]　　　　　　[Maximum Marks : 40

Note : Q. No. **1** is compulsory. Answer to each part should not exceed 20 words. Out of remaining eight, attempt *two* questions from each Section A and Section B. Attempt *five* questions in all.

1. Explain the following in about **20** words :

    (a)　Pest

    (b)　Stenohaline

    (c)　Polyphagous

    (d)　Dinghi

    (e)　Scoop net

    (f)　Shell fishes

    (g)　Polar lakes

    (h)　Pearl oyster in India

    (i)　Caterpillar

    (j)　Zoological name of Rice stem borer.　　**1×10=10**

Section A

2. (a) Describe the reservoir fisheries in detail.

   (b) Describe fauna of Brahmaputra river system.

   $5+2\frac{1}{2}=7\frac{1}{2}$

3. Write an essay on fishing gears.　　　　　$7\frac{1}{2}$

4. Write notes on the following :

   (a) World fish demand and utilization

   (b) Prawn culture.　　　　　$3+4\frac{1}{2}=7\frac{1}{2}$

5. Write notes on the following :

   (a) Cold water fisheries

   (b) Mechanized fishing crafts.　　$3\frac{1}{2}+4=7\frac{1}{2}$

Section B

6. Explain the systematic position, habits, nature of damage, life cycle and control of Sugarcane leaf hopper.　　$7\frac{1}{2}$

7. Discuss the nature of damage caused and habits of the following pests :

   (a) Wheat stem borer

   (b) The Hadda beetle.　　　　$3\frac{1}{2}+4=7\frac{1}{2}$

8. Give the systematic position of the following pests :

(a) Rice stem borer

(b) Gundhi bug

(c) Cotton jassid

(d) Sugarcane white fly. **2+2+2+1½=7½**

9. Write notes on the damage causing stage and control of the following pests :

(a) Rice Grasshopper

(b) Red Cotton Bug

(c) Gurdaspur Borer. **2½+2½+2½=7½**