

**4/EH-63 (iv) (Syllabus-2015)**

**2 0 1 8**

( April )

**ZOOLOGY**

( Elective/Honours )

**FOURTH PAPER**

**( Developmental Biology, Ecology and  
Economic Zoology )**

*Marks : 56*

*Time : 3 hours*

*The figures in the margin indicate full marks  
for the questions*

Answer Question No. **1** and *any four* from the rest

**1.** Answer any *three* of the following questions :

4×3=12

- (a) What are the different types of eggs based on yolk?
- (b) Write a short note on induced breeding.
- (c) Write a note on water pollution.

( 2 )

( 3 )

- (d) Differentiate between a niche and a biome.
- (e) Write a note on the economic importance of apiculture.
2. What is metamorphosis? Give an account of metamorphosis in amphibians.  $2+9=11$
3. What precisely is meant by activation of (a) egg and (b) sperm? Discuss egg activation during fertilization.  $4+7=11$
4. What are abiotic ecological factors? Write a note on the role of light as an important ecological factor.  $3+8=11$
5. What is food chain? What are the components of a food chain? Write an account on the basic types of food chains with suitable examples.  $1+2+8=11$
6. What are the intraspecific and interspecific associations? Write a note on the different types of interspecific associations citing suitable examples.  $2+9=11$
7. Give a detailed account of Integrated Pest Management.  $11$

8. Write short notes on any *two* of the following :  $5\frac{1}{2}\times 2=11$

- (a) Types of placenta
- (b) Product of sericulture and its economic importance
- (c) Food web
- (d) Fate map of frog embryo

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