

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

2 0 1 9

(April)

ZOOLOGY

(Elective/Honours)

**(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. Write short notes on any three of the following : 4×3=12
 - (a) Fate map of frog embryo
 - (b) Parthenogenesis
 - (c) Air pollution
 - (d) Levels of organization in the biosphere
2. What is metamorphosis? Describe the process of metamorphosis in insects. 2+9=11

3. Describe the different steps involved in induced breeding technique of carps. 11
4. Name the common species of bees used in apiculture in India. Describe the modern or scientific method of apiculture with the help of a labelled diagram. $4+7=11$
5. What are the ecological pyramids? Differentiate between the three types of ecological pyramids. $4+7=11$
6. What are renewable and non-renewable resources? Write a note on the management of renewable and non-renewable resources. $3+8=11$
7. What is blastulation? Describe the process of blastulation in frog with the help of suitable diagrams. $2+9=11$
8. Write short notes on any *two* of the following : $5\frac{1}{2}\times 2=11$
- (a) Composite fish culture
 - (b) Culturable fish species of India
 - (c) Economic importance of sericulture
 - (d) Energy flow in an ecosystem

★ ★ ★