

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

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(May/June)

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) Types of eggs based on the amount of
yolk**
- (b) Food web**
- (c) Renewable and non-renewable
resources**
- (d) Ecdysone**
- (e) Economic importance of honeybee**

(2)

2. Describe the process of spermatogenesis. Substantiate your answer with suitable diagrams. $9+2=11$
3. Discuss the role of temperature as an ecological factor. Write a note on the effects of temperature on wildlife population. $6+5=11$
4. What do you understand by interspecific and intraspecific interactions? Explain the different types of interspecific interactions with suitable examples. $2+9=11$
5. Define water pollution. Describe the ecological effects of water pollution on the aquatic life and human. Explain certain recent methods to control the water pollution. $1+6+4=11$
6. Describe the life history of *Bombyx mori* with diagrams. State the economic importance of sericulture. $5+2+4=11$
7. Explain in detail any two methods used to control pests. $5\frac{1}{2}+5\frac{1}{2}=11$

(3)

8. Write short notes on any two of the following : $5\frac{1}{2}\times 2=11$
- (a) Cortical reactions
- (b) Ecological niche
- (c) Social organization in honeybee
