

**Code No. : B03/405**

**Or**

Write about osmoregulatory migration in fishes.

(D) Write an essay on biological clock. **12**

**Or**

Write notes on echolocation in bats and language of honey bee.



**Roll No. ....**

**Total No. of Sections : 4**

**Total No. of Printed Pages : 4**

**Code No. : B03/405**

### **III Semester Examination**

**M.Sc.**

**ZOOLOGY**

**Paper IV**

[Animal Behaviour]

Time : Three Hours ]

[ Maximum Marks : 80

[ Min. Passing Marks : 16

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*Note : Part A and B of each question in each unit consists of Very Short Answer Type Questions which are to be answered in one or two sentences. Part C (Short Answer Type) of each question will be answered 200-250 words. Part D (Long Answer Type) of each question should be answered within the word limit 400-450.*

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#### **Unit-I**

1. (A) Give examples of innate behaviour. **2**
- (B) Which brain lobe is considered as silent area ? **2**
- (C) Write about stimulus filtering. **4**

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**Or**

Write the role of metencephalon in controlling behaviour.

- (D) Discuss role of hypothalamus in feeding, drinking and reproductive behaviour. **12**

**Or**

Write the effect of adrenal gland on behaviour.

**Unit-II**

2. (A) Define single gene effect. **2**  
(B) Name honey bee strain which shows polygenic inheritance of behaviour. **2**  
(C) Explain Mobbing. **4**

**Or**

Write about homeostasis and behaviour.

- (D) Write an essay on territoriality. **12**

**Or**

Explain with examples single and multiple gene effect on behaviour.

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**Unit-III**

3. (A) What is Patriarchy ? **2**  
(B) What is altruism ? **2**  
(C) Write about female choice. **4**

**Or**

Explain sexual selection.

- (D) Explain social behaviour, write advantages of being social. **12**

**Or**

Describe courtship in three spine stickleback fish.

**Unit-IV**

4. (A) Define Imprinting. **2**  
(B) What is Thorndike box ? **2**  
(C) Write about altitude and speed of bird migration. **4**