

ANIMAL BEHAVIOUR

DSE-1

UNIT-I

Animal Behaviour

Answer the followings.

1.5/2.5 marks

1. Write the applications of ethology.
2. Who is Ivan Pavlov?
3. What is proximate behaviour?
4. Write the objectives of behaviour.
5. Justify behaviour as a discipline of science.
6. Define innate behaviour.
7. What is instinct?
8. What are code breakers?

Long answer questions.

6 marks

1. Describe the ultimate and proximate causes of behaviour.
2. What is instinct?
3. What is stimulus? What is stimulus filtering?

UNIT-II

Patterns of Behaviour

Answer the followings.

1.5/2.5 marks

1. Define orientation.
2. What is learning?
3. What is associative learning?
4. Define thermotaxis.
5. Give an example of habituation.
6. What is imprinting?
7. What are reflexes?

Long answer questions.

6 marks

1. What is orientation? Describe its types.
2. What is conditioning? Write its types.
3. What is habituation?
4. What is imprinting?

UNIT-III

Social and Sexual Behaviour

Fill in the blanks

1 marks

1. When the food source is at a far distance, bees perform _____ dance.
2. Foraging behaviour is regulated by _____ genes.
3. Division of labour in bees is known as _____.
4. _____ studied learning in bees.
5. Kin selection was proposed by _____.
6. Adults killing the young is a _____ behaviour.
7. Destruction of eggs is _____ behaviour.

Answer the followings.

1.5/2.5 marks

1. Define a society. Give an example.
2. What is altruism?
3. Write a note on honey bee reproduction.
4. What is foraging behaviour of honey bees?
5. Differentiate round dance and waggle dance.
6. What is sexual dimorphism?
7. Define male rivalry.
8. Write a note on maternal investment in parental care.

Long answer questions.

6 marks

1. Describe altruism.
2. Describe insect's society: honey bee as an example.
3. What is foraging behaviour and its mechanism.
4. Write mate choice.
5. Describe intra sexual selection.
6. Describe female choice.
7. Describe the process of sexual selection in parental care.

Unit-IV

Chronobiology

Fill in the blanks

1 marks

1. Body's biological clock is located in _____.
2. _____ cycle occurs once in every 24 hours.
3. Pineal gland secretes _____ hormone.
4. Study of periodicity is _____.
5. Father of chronobiology is _____.
6. Musk deer secretes _____.

Answer the followings.

1.5/2.5 marks

1. Define biological clock.
2. Write the adaptive significance of biological clock.
3. What is circannual clock?
4. How the sleep-wake cycle is regulated?

5. What is photoperiod?
6. What is melatonin?
7. What are zeitgebers?

Long answer questions.

6 marks

1. What is biological clock? Write its adaptive significance.
2. Write the seasonal reproduction in vertebrates.
3. Write the role and mechanism of action of melatonin.

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