

(47) Seat No.: \_\_\_\_\_

No. of Printed Pages : 2

**SARDAR PATEL UNIVERSITY**  
**B.Sc. (2<sup>nd</sup> semester) (CBCS) Examination October-2016 (NC)**  
**US02EBIO01: Biology**

**Date: 22/10/16**  
**Saturday**

**Time: 2.00 p.m. to 4.00 p.m.**  
**Total marks: 70**

**Note: Draw neat and labeled diagram wherever necessary.**

**Que-1 Multiple choice questions. (10)**

1. Learning is a change in behavior as a result of \_\_\_\_\_.  
(a) Experience (b) Mutation (c) Instinct (d) Motivation
2. Trial and Error is a type of \_\_\_\_\_ behavior.  
(a) Learnt (b) Innate (c) Instinct (d) None of these
3. The branch dealing with Animal behavior is \_\_\_\_\_.  
(a) Biochemistry (b) Ethology (c) Biophysics (d) Biotechnology
4. Life span of RBC is \_\_\_\_\_ days.  
(a) 90 (b) 120 (c) 60 (d) 100
5. Open circulatory system is found in \_\_\_\_\_.  
(a) Annelids (b) Invertebrates (c) Vertebrates (d) All of these
6. The comma shaped bacteria are called \_\_\_\_\_.  
(a) Bacilli (b) Cocci (c) Vibrio (d) None of these
7. The fruiting body of mushroom is called \_\_\_\_\_.  
(a) Sporocarp (b) Aecidiocarp (c) Basidiocarp (d) None of these
8. The virus which infects the bacteria is called \_\_\_\_\_.  
(a) Influenza virus (b) Herpes virus (c) Bacteriophage (d) TMV
9. Hermit crab and Sea anemone is the example of \_\_\_\_\_.  
(a) Antibiosis (b) Commensalism (c) Parasitism (d) Mutualism
10. Which of following is negative relationship?  
(a) Mutualism (b) Commensalism (c) Predatorism (d) Parasitism

(P.T.O.)

**Que -2 Answer the following questions. (Any Ten) (20)**

1. What is Learnt behavior?
2. What is Genetics?
3. Name the types of innate behavior.
4. Define the word digestion and name the types of digestion.
5. Define omnivores by giving examples.
6. Write the function of pace maker.
7. Why the rhizoids are not called roots?
8. What are coralloid roots?
9. What is bacteriophage?
10. What is hydrophyte?
11. Name the types of commensalism.
12. Write the characteristics of predator.

**Que-3 (a) Write a note on Kinesis. (05)**

**(b) Explain Trial and error learning. (05)**

**OR**

**Que-3 Discuss the Taxis behavior. (10)**

**Que-4 (a) Sketch and label human heart. (05)**

**(b) Types of WBC. (05)**

**OR**

**Que-4 Define the word nutrition and Describe the types of nutrition. (10)**

**Que-5 (a) Give the Classification of bacteria based on shape. (05)**

**(b) Write a note on mycelium of mucor. (05)**

**OR**

**Que-5 Describe dicotyledons with example of Sunflower. (10)**

**Que-6 (a) Succulents and nonsucculent plant. (05)**

**(b) Types of hydrophytes. (05)**

**OR**

**Que-6 Define Mutualism and discuss with suitable examples. (10)**