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No. of printed pages :2

SARDAR PATEL UNIVERSITY
B.Sc. (II- SEM.) (CBCS) EXAMINATION
Tuesday, 5th April, 2016.
10:30 A.M. TO 12:30 P.M.
US02EBIO01: BIOLOGY

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OSOZEBIOOT: BIOLOGY	
Total ma	rks:- 70
Note:- Draw neat and labeled diagram wherever necessary.	
Q-1 Multiple choice questions (Compulsory) (10)	
(1) According to ethologist behavior is programmed by	
(a) Natural selection (b) Mutation (c) Instincts (d) None of these	
(2) A Lizard flicks out its long tongue at the sight of an insect, is an example of	
(a) Learning (b) Fixed action pattern (c) Reflexes (d) Sign stimulus	
(3) The lower chamber of human heart is called	
(a) Aorta (b) S.A. Node (c) Ventricle (d) Pace maker	
(4) Closed circulatory system is found in	
(a) Molluscans. (b) Protozoan (c) Arthropods (d) Vertebrates	\vec{j}
(5) The organisms which are capable to synthesize the organic compound and prepare food are called	i
(a) Autotrophs (b) Osmotrophs (c) Heterotrophs (d) All of these	
(6) During monsoon ground becomes slippery because of,	
(a) Blue-green algae (b) Liverworts (c) Mosses (d) None of these	
(7) Which of the following is a living fossil?	
(a) Moss (b) Cycas (c) Spirogyra (d) None of these	
(8) Reticulate venation of leaves is a characteristic feature of plant.	
(a) Monocot (b) Dicot (c) Both a & b (d) None of these	
(9) The leaves are much reduced and sometimes modified into spines in	
(a) Xerophytes (b) Hydrophytes (c) Both a & b (c) None of these	/
(10) The relationship where one partner is benefited but the other is not harmed is called	
(a) Mutualism (b) Antibiosis (c) Commensalism (d) None of these	
Q-2 Answer the following (Any Ten) (20)	
(1) What is Innate behavior? (2) Name the different types of Learnt behavior.	

 (3) Define the term habituation. (4) Define the word digestion and name its types. (5) What is open circulatory system? (6) Write the function of Bicuspid and Tricuspid valve. (7) Write the function of Rhizoids. (8) Sketch and label Mushroom. (9) Name any four viral diseases. (10) What is parasite? Name any four types. (11) What is xerophytes? Give any two examples. (12) Define free floating hydrophytes by giving examples. 	<i>J</i>
Q-3 Write short notes on: (a) Trial and error learning	(05)
(b) Insight learning	(05)
OR	(,
Q-3 Describe the following:	
(a) Reflexes	(05)
(b) Taxis behavior. Q-4 Describe the following:	(05)
(a) Types of Heterotrophic nutrition	(04)
(b) Types of Digestion	(06)
OR	
Q-4 Describe the structure and mechanism of human heart with suitable diagram.	(10)
Q-5 Write notes on:	
(a) Morphological characters of cycas	(06)
(b) Difference between Bryophyte and Pteridophyte plant.	(04)
OR	
Q-5 Do as directed:	/
(a) Describe Angiospems	(05)
(b) Explain the characters of Algae	(05)
Q-6 Define the word mutualism. Discuss the various types with suitable examples.	(10)
OR	
Q-6 What is hydrophyte? Describe the morphological adaptation in hydrophytes.	(10)