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## Sardar Patel University M.Sc. (Integrated) Biotechnology Semester IV Examination 2016

Environmental Biology: PS04CIGB 03

Saturday 2<sup>nd</sup> April, 2016 10:30 am to 1:30 pm

Total Marks: 70

| Notes: (i) Figures to the right indicate marks.           | Total Marks: 70  |
|---|--|
| (ii) Draw diagrams wherever necessary.                    |  |
| Q I Multiple choice Questions.                            | [08]   |
| 1 deal with the study of the relationship betw            | een organisms and  |
| their environments.                                       |  |
| (A) Ecology (B) Autecology                                |  |
| (C) Synecology (D) None of them.                          |  |
| 2. All the food chain end at the level.                   |  |
| (A) Producer (B) Decomposer                               |  |
| (C) Consumer (D) Heterotrophs                             | ×  |
| 3. Parasites do not kill their                            |  |
| (A) Competitors (B) Consumers                             |  |
| (C) Host (D) All of them                                  |  |
| 4. Polyclimax theory was proposed by in 1935.             |  |
| (A) Whittaker (B) Sellack                                 |  |
| (C) Clements (D) Tansley                                  |  |
| 5. Rainfall is the chief source of soil                   |  |
| (A) Moisture (B) Humidity                                 |  |
| (C) Humus (D) None of them                                |  |
| 6 bonding is responsible for high heat of                 | Vaporization of water  |
| (A) Oxygen (B) Hydrogen                                   | , and the state of |
| (C) Hydrogen and Oxygen (D) None of them                  |  |
| 7are capable of adapting and surviving relatively la      | roe temperatura changas in the   |
| (A) Stenotherms (B) Homeotherms                           | rge temperature changes in the environment   |
| (C) Eurytherms (D) Poikilotherms                          | •  |
| B. Light is fundamentally important for the production of |  |
| (A) Pigments (B) Chloroplast                              |  |
| (C) Tonoplast (D) Chlorophyll                             |  |

| 1. What do you mean by ecology? Write two major divisions of ecology.  |                   |
|--|-------------------|
| 2. Write a short note on: Role of decomposers in terestrial environment.   |                   |
| 3. What is parasitism?   |                   |
| 4. Define neutralism. Give suitable example.   |                   |
| 5. What is weathering of soil?   |                   |
| 6. Write the characteristics of coniferous ecosystem.  |                   |
| 7. What are the physical properties of water   |                   |
| 8. Define phototaxis and Photokinesis.   |                   |
| 9. Draw the flow chart of hydrological cycle.  |                   |
| b. What are ecological pyramids? Discuss in detail about pyramid of number and pyramid of energy.  OR  b. Write a detail note on scope of ecology.  QIV a. Describe mutualism with suitable examples.  b. Explain climax concept.  OR  | )6]<br>)6]<br>)6] |
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| C. Cous on production in the production and animals.  C. Cous on production in the course of the cou |                   |
| C. Cous of pro-  |                   |

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