

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
B.Sc./IMSc, Winter 2017-18 Examination

Semester: 3**Subject Code: 11102202****Subject Name: Biodiversity and Taxonomy****Date: 19/12/2017****Time: 10:30 am to 1:00 pm****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) What is Biogeography? Give details of Phytogeography and Zoogeography with respect to World Biomes. (08)**
- Q.1. B) Answer the following questions (Any two)**
- (a) Short note: Types of Biodiversity. (04)
 - (b) Discuss Mutualism and Commensalism. (04)
 - (c) Discuss Predation and Parasitism. (04)
- Q.2. A) Answer the following questions.**
- (a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
 1. Utilization of biodiversity.
 2. Threats to Biodiversity.
 - (b) Short note: Population Size and Density. (04)
- Q.2. B) Answer the following questions (Any two)**
- (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
 1. Define: Carrying capacity
 2. Define: Habitat
 3. Name any two Green house Gases.
 - (b) Short note: Population Dispersion. (03)
 - (c) Short note: Age Structure and Mortality. (03)
- Q.3. A) What is Biodiversity? Explain its conservation in detail. (08)**
- Q.3. B) Answer the following questions (Any two)**
- (a) Why India is known as Mega diversity country? (04)
 - (b) Short note: Biological clock. (04)
 - (c) Discuss about conservation laws and policies. (04)
- Q.4. A) Answer the following questions.**
- (a) Define Taxonomy and Cladograms. (04)
 - (b) Short note: Chromosomal Rearrangements. (04)
- Q.4. B) Answer the following questions (Any two)**
- (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
 1. Give full form: CITES, MAB.
 2. What is an endangered species?
 3. Give two examples of National parks.
 - (b) Short note: Binomial Nomenclature. (03)
 - (c) What is Molecular Taxonomy? (03)