**P.G. GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**TEACHING PLAN (1st Semester)**

**SESSION (2018-19)**

**Class:** B.Sc.- II (1st Week)  **Name of the Teacher: Dr. Dalip Kumar**

M.Sc.- I (2nd Week)

**Subject: ZOOLOGY Period:** M.Sc.- I (4th - 6th)

B.Sc.- II (4th)

**Paper:** B.Sc.- II: Paper-A (Room No: 126,218)

M.Sc.- I: Paper-IV (Room No: 130 & 131)

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| **S. No.** | **Date from** | **Date upto** | **Topics to be Covered** |
| Week 1 | Jul. 30, 2018 | Aug. 04, 2018 | Enzymes: Nature, their classification and coenzymes |
| Week 2 | Aug. 06, 2018 | Aug. 11, 2018 | **Introduction** : Definition, subdivision & scope of ecology.  **Abiotic Factors** : Temperature, light and soil as ecological factors. |
| Week 3 | Aug. 13, 2018 | Aug. 18, 2018 | The Embden Meyerhoff, Parnas pathway(glycolysis) |
| Week 4 | Aug. 20, 2018 | Aug. 25, 2018 | Mimicry and Protective colouration – Definition, types of mimicry with  examples.  Migration of fishes and birds. |
| Week 5 | Aug. 27, 2018 | Sep. 01, 2018 | The tricarboxylic acid cycle |
| Week 6 | Sep. 03, 2018 | Sep. 08, 2018 | **Principles of limiting factors** : Liebig’s law of minimum, Shelfords law of  tolerance and the combined concept of limiting factors.  **Ecosystem** : Definition, components, food chain & food web, |
| Week 7 | Sep. 10, 2018 | Sep. 15, 2018 | The Hexose Monophosphate Shunt, |
| Week 8 | Sep. 17, 2018 | Sep. 22, 2018 | Energy flow through ecosystem, ecological pyramids, Major ecosystems of the world.  **Biogeochemical Cycles** : Definition, different types of gaseous and sedimentary biogeochemical cycles. |
| Week 9 | Sep. 24, 2018 | Sep. 29, 2018 | Glycogenesis and Glycogenolysis. |
| Week 10 | Oct. 01, 2018 | Oct. 06, 2018 | Parental care, Intra and interspecific relationships |
| **October 11-17, 2018 (Mid-Semester Exams)** | | | |
| Week 12 | Oct. 08, 2018 | Oct. 13, 2018 | Blood groups including Rh. Factor |
| Week 13 | Oct. 15, 2018 | Oct. 20, 2018 | Feeding, Learning, reasoning, instinctive and motivative behavior, Social and sexual behavior of animals, Circadian rhythms |
| Week 14 | Oct. 22, 2018 | Oct. 27, 2018 | Function of hemoglobin, blood clotting |
| Week 15 | Oct. 29, 2018 | Nov. 03, 2018 | **Population** : Characteristics, ecological niche, **Biotic community** : Characteristics of biotic community, ecological niche. |
| Week 16 | Nov. 05, 2018 | Nov. 10, 2018 | Composition and functions of blood and lymph. |
| Week 16 | Nov. 12, 2018 | Nov. 17, 2018 | **Ecological succession** : Definition, types of succession, Xerarch & Hydrarch, concept of climax community, theories of succession. |
| Week 17 | Nov. 19, 2018 | Nov. 24, 2018 | Revision of Enzymes and The Hexose Monophosphate Shunt |
| Week 18 | Nov. 26, 2018 | Dec. 01, 2018 | **Ecological Adaptations** : Desert, aerial, fusorial and aquatic adaptations in animals. |