

B.Sc. Medical V Sem

Ecology and Evolution

Lesson Plan: 2018-19

Teacher:

- Aakanksha Yadav
Department of
Zoology

July:

- Basic concepts of ecology: Definition, significance. Concepts of habitat and ecological niche.

August:

- Factors affecting environment: Abiotic factors (light intensity, quality & duration) temperature, humidity, topography; edaphic factors; biotic factors.
- Ecosystem: Concept, components, properties, functions.

September:

- Ecosystem: Ecological energetics & energy flow, food chain, food web, trophic structure, ecological pyramids concept of productivity.
- Biogeochemical cycles: Concept, reservoir pool, gaseous & sedimentary cycles.
- Population: Growth & regulation.

October:

- Origin of life: Concept & evidences of organic evolution, Theories of organic evolution, concept of microevolution & concept of species.
- Concept of macro and mega evolution.

November:

- Phylogeny of horse, Evolution of man.