Odd Semester Lesson Plan

Teacher name: DR.SHIKHA JAGGI

**Life and Diversity from Protozoa to Porifera & Cell Biology – I**

October 2020

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| i) General characters and classification up to order level  ii) Biodiversity and economic importance  iii) Type study of *Plasmodium;*  iv) Parasitic protozoans: Life history, mode of infection and pathogenecity of *Entamoeba,*  *Trypanosoma, Leishmania* and *Giardia.*  4. **Golgi complex:** Structure, Associated enzymes and role of golgi-complex in animal cell.  10. |

November 2020

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| 2. **Porifera:**  i) General characters and classification up to order level  ii) Biodiversity and economic importance  iii) Type study – *Sycon*  iv) Canal system in sponges  v) Spicules in sponges  1. Ultrastructure of different cell organelles of animal cell. |

December 2020

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| 2. **Plasma Membrane:** Fluid mosaic model, various modes of transport across the membrane,  mechanism of active and passive transport, endocytosis and excytosis.  3. **Endoplasmic reticulum (ER) :** types, role of ER in protein synthesis and transportation in  animal cell. |

January2021

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| 5. **Ribosomes**: Types, biogenesis and role in protein synthesis.  6. **Lysosomes:** Structure, enzyme and their role; polymorphism  7. **Mitochondria:** Mitochondrial DNA; as semiautonomous body, biogenesis, mitochondrial |

February 2021

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| enzymes (only names), role of mitochondria.  8. **Cytoskeleton:** Microtubules, microfilaments, centriole and basal body.  9. Cilia and Flagella |