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 levelii) Biodiversity and economic importanceiii) 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 levelii) Biodiversity and economic importanceiii) Type study – *Sycon*iv) Canal system in spongesv) Spicules in sponges1. 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 inanimal cell. |

January2021

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| 5. **Ribosomes**: Types, biogenesis and role in protein synthesis.6. **Lysosomes:** Structure, enzyme and their role; polymorphism7. **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 |