

## Online Class Program (OCP)

**Road Map (English) Term-I ( 2020-2021) w.e.f.01 Jul 2020**

### SUBJECT-BIOLOGY

DATE	CL-12		CL-11	
	Topic	Sub-Topic	Topic	Sub-Topic
01-07-2020	L6: Molecular basis of inheritance	Transcription	L7: structural organisations in animals	Animal tissue
02-07-2020		Transcription unit		Simple and compound Epithelium.
03-07-2020		Transcription unit & the gene		Connective tissue
04-07-2020		Types of RNA & Transcription		Loose and , dense connective
05-07-2020		<b>SUNDAY</b>		
06-07-2020		Genetic code		Bones , blood
07-07-2020		Mutation & genetic code		Muscle tissue
08-07-2020		Translation		Skeletal, smooth, cardiac
09-07-2020		Regulation of gene expression		Neural tissues
10-07-2020		Human genome project		Organ & Organ system
11-07-2020		Salient features of HGP		Morphology and anatomy of cockroach
12-07-2020				
13-07-2020		DNA fingerprinting		L8: cell – Unit of life
14-07-2020	Evolution of life	Prokaryotic cells, cell modifications		
15-07-2020	Theories of evolution	Ribosomes & eukaryotic cells		
16-07-2020	L7: Evolution	Evidences for evolution	Cell membrane, cell wall, endoplasmic reticulum	
17-07-2020		Convergent & divergent evolution	Golgi apparatus, mitochondria, plastids.	
18-07-2020		Adaptive radiation	Ribosomes, nucleus, microbodies	
19-07-2020		<b>SUNDAY</b>		
20-07-2020		Branching descent & natural selection	L9: Biomolecules	Analysis of chemical compounds
21-07-2020		Mechanism of evolution		Organic and inorganic compounds
22-07-2020		Hardy Weinberg principal		Primary & secondary metabolites
23-07-2020		A brief account of evolution.		Biomolecules polysaccharides
24-07-2020		Evolution of man.		Structures of proteins
25-07-2020		Evolution Vs advancement		Dynamic state of body
26-07-2020	<b>SUNDAY</b>			
27-07-2020	L8: Human Health & Diseases	Common diseases in humans	Enzymes & chemical reaction	
28-07-2020		Common diseases in humans	Factors affecting enzyme activity	
29-07-2020		Innate Immunity	Classification of enzymes	
30-07-2020		Acquired Immunity	L10: Cell cycle & Cell Division	Cell cycle
1.8.20	Vaccination & immunisation	Phases of cell cycle		
2.9.20	<b>SUNDAY</b>			
3.8.20	Immune system in or body.	Interphase		
4.8.20	AIDS, Cancer	M Phase		
		G1 Phase		
5.8.20	Drugs and alcohol abuse .	S phase		
		G2 Phase		
6.8.20	Adolescence & drug abuse.	Prophase		
		Metaphase		
		Anaphase		
		Telophase		
		Cytokinesis		

			L10:	significance
7.8.20		Effects of drug abuse		Meiosis I & II
				Prophase
				metaphase
8.8.20		Prevention & control		Anaphase
				Telophase
				Significance
9.8.20		<b>SUNDAY</b>		
10.8.20	L9: Food production	Animal husbandry	L11: Transport in plants	Means of transport
11.8.20		Dairy & poultry farm amnagement		Diffusion
				Facilitated diffusion
				Active transport
12.8.20		Animal breeding methods		Water potential
				Osmosis
13.8.20		Bee Keeping		Plasmolysis
				Imbibation
14.8.20		Fisheries		Long distance transport of water
15.8.20		Plant Breeding Methods		Apoplastic & symplastic pathways
16.8.20		<b>SUNDAY</b>		
17.8.20		Plant Breeding for disease resistance		Root pressure
				Guttation
18.8.20		Plant breeding for pest resistance & improving quality		Transpiration pull theory
		Uptake of mineral ions		
19.8.20	SCP& Tissue Culture	Translocation of mineral ions		
20.8.20	Totipotency	Source to sink		
		Pressure flow hypothesis		
21.8.20	Somatic hybrids	Pressure flow hypothesis		
22.8.20	Micropropagation			
23.8.20		<b>SUNDAY</b>		
24.8.20	L10: Microbes in Human welfare	Viriods, Prions	L12: Mineral Nutrition	Methods to study mineral requirements
25.8.20		Microbes in household products		Criteria for essentiality
				Micro & macro nutrients
26.8.20		Microbes in industrial products		Micro & Macro nutrients
27.8.20		Fermented beverages		Deficiency symptoms of essential elements
				Toxicity of micronutrients
28.8.20		Antibiotics		Mechanism of absorption of elements
29.8.20		Chemicals enzymes & other bioactive molecules		
30.8.20				Metabolism of nitrogen
31.8.20		Microbes in sewage treatment		N2 Cycle
				Biological nitrogen fixation
1.9.20		Primary & secondary treatment of sewage		Symbiotic biological N2 Fixation
2.9.20		Microbes in production of biogas		
3.9.20		Microbes as biocontrol agents		Early experiments
		Site of photosynthesis		
4.9.20	Microbes as fertilizers	Photosynthetic pigments		
5.9.20	Organic farming			
6.9.20		<b>SUNDAY</b>		
7.9.20	ion	Term 1 Practicals & revision	photosynthesis in other plants	ETS

8.9.20	Revision L1	Term 1 Practicals & revision	L13:Pi hi	Cyclic & non cyclic phosphorylation
9.9.20		Term 1 Practicals & revision		Chemiosmotic hypothesis
10.9.20	Revision L2	Term 1 Practicals & revision		Calvin Cycle C4 Pathway
11.9.20		Term 1 Practicals & revision	Term 1 Practicals & revision	
12.9.20	Revision L3	Term 1 Practicals & revision	Revision L1	Term 1 Practicals & revision
13.9.20		<b>SUNDAY</b>		
14.9.20		Term 1 Practicals & revision	Revision L2	Term 1 Practicals & revision
15.9.20		Term 1 Practicals & revision		Term 1 Practicals & revision
16.9.20		Term 1 Practicals & revision	Revision L3	Term 1 Practicals & revision
17.9.20	Term 1 Practicals & revision	Term 1 Practicals & revision		
18.9.20	Revision L4	Term 1 Practicals & revision	Revision L5	Term 1 Practicals & revision
19.9.20		Term 1 Practicals & revision		Term 1 Practicals & revision
20.9.20		<b>SUNDAY</b>		
21.9.20	Revision L5	Term 1 Practicals & revision	Revision L6	Term 1 Practicals & revision
2.9.20		Term 1 Practicals & revision		Term 1 Practicals & revision
23.9.20		Term 1 Practicals & revision	Revision L7	Term 1 Practicals & revision
24.9.20	Term 1 Practicals & revision	Term 1 Practicals & revision		
25.9.20		Term 1 Practicals & revision	Revision L8	Term 1 Practicals & revision
26.9.20	Revision L7	Term 1 Practicals & revision	Revision L9	Term 1 Practicals & revision
27.9.20		<b>SUNDAY</b>		
28.9.20	Revision L8	Term 1 Practicals & revision	Revision L10	Term 1 Practicals & revision
28.9.20		Term 1 Practicals & revision		Term 1 Practicals & revision
30.9.20		Term 1 Practicals & revision	Revision L11	Term 1 Practicals & revision