

Details of online classes conducted during lockdown period Department of Botany

Class	Teacher Name	Topic	Web link/ tool used
1 st Bsc CBZ	Dr.M.S.Kempe Gowda	Structure, reproduction and life history of Albugo, Peziza	Zoom App
		Structure, reproduction and life history of Puccinia and Cercospora.	Zoom App
		Mycorrhiza: General account	Zoom App
		Saccharomyces - A model genetic organism.	Zoom App
		Lichens: General account, Structure and reproduction. Ecological and Economic importance.	Zoom App
		Economic importance: Role of fungi in Medicine, Agriculture and Industry	Zoom App
		Question paper Revesion	Zoom App

Note : 1. Login ID :6520184373
Password: 9731135354


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 RAJANAHALLI DISTRICT

21/8/2020

Details of online classes conducted during lockdown period Department of Botany

Class	Teacher Name	Topic	Subtopic	Web link/ tool used
2 nd Bsc CBZ	Dr.M.S.Kempegowda	Megagametogenesis	Types of development of Female gametophyte	Zoom App
			/embryosac- monosporic- Polygonum type, bisporic-Allium type, tetrasporic-Fritillaria type	Zoom App
			Structure of mature embryosacStructure and functions of synergids	Zoom App
			egg, central cell and antipodals.	Zoom App
		Double fertilization	pollen germination, growth of pollen tube through style (solid and hollow styles),	Zoom App
			entry of pollen tube into ovule (porogamy, mesogamy, chalazogamy), entry of pollen tube into the embryosac, pollen tube discharge, syngamy, triple fusion. Significance of double fertilization, post fertilization changes.	Zoom App
		Endosperm -	Types and its biological importance. Free nuclear (Areca catechu, Cocos nucifera),	Zoom App
			cellular (Cucumis), helobial types. Ruminante endosperm.	Zoom App
		Question paper revision		Zoom App

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 28/12/2020

Details of online classes conducted during Lockdown period Department of Botany

Class	Teacher Name	Topic	Subtopic	Web link/ tool used
3 rd Bsc CBZ	Dr. M.S. Kempegowda	Cell Division	Phases, mitotic apparatus, cytokinesis,	Zoom App
			mitotic inhibitors, significance of mitosis;	Zoom App
			Meiosis- phases of meiotic cycle	Zoom App
			cytological proof of crossing over,	Zoom App
			synaptonemal complex. Brief study on Apoptosis	Zoom App
			carbon reactions (Calvin Cycle, C4 – Pathway, CAM), Factors affecting the process.	Zoom App
			Organelles involved, mechanisms and significance.	Zoom App
Photosynthesis	Photosynthesis	Respiration-	Introduction, mechanism of aerobic respiration – glycolysis, TCA cycle,	Zoom App
			ETS and oxidative phosphorylation,	Zoom App
			mechanism of anaerobic respiration(alcoholic fermentation and lactic acid fermentation),	Zoom App
			Respiratory Quotient and its significance, factors affecting respiration.	

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9/8/2020

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Rural College, Kanakapura

Department of Botany

Online Classes Report Conducted During Covid-19 Lockdown Period

(April 2020 to May2020)

KAVITHA H-G.

Date	Class	Details of portion covered	Tools Used	Link
17-04-2020	I Bsc	Role of fungi in medicine	Digital Camera	http://YouTube.be/h-S8hcelp8A
17-04-2020		Role of fungi in medicine	Digital Camera	https://youtu.be/JT8psVzUIVg
21-04-2020		Lichens	Digital Camera	https://youtu.be/BYEE5pMzdeg
18-04-2020		Secretory cells and tissues	Digital Camera	https://youtu.be/Cj8hkbqv4j4
19-04-2020		External secretory tissues	Digital Camera	https://youtu.be/szKVhN3--3w
20-04-2020		Internal secretory tissue	Digital Camera	https://youtu.be/AKTBCPnPqds

Kavitha H-G
10/05/2020

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KAVITHA A.G

25-04-2020		Anomalous secondary growth in dracaena	Digital Camera	https://youtu.be/gzZR1t-tKtE
30-04-2020		Anomalous secondary growth in Boerhaavia primary structure	Digital Camera	https://youtu.be/vNkQeYo74Ww
01-05-2020		Boerhaavia secondary structure	Digital Camera	https://youtu.be/cEfoMrkxJOY
02-05-2020		Vascular tissues	Digital Camera	https://youtu.be/fmJUe9P6Kc
18-04-2020	II BSc	Gnetum morphology	Digital Camera	https://youtu.be/lbbEomK8ZE
20-04-2020		Young and old root of Gnetum	Digital Camera	https://youtu.be/lfasUMEK9og
22-04-2020		T.S Of young Gnetum stem	Digital Camera	https://youtu.be/NDXORteDhak
24-04-2020		Abnormal secondary growth in Gnetum	Digital Camera	https://youtu.be/DUPucyUmwSA
26-05-2020		Anatomy of Gnetum leaf	Digital Camera	https://youtu.be/-Eozv7K4ebc
27-04-2020		Structure of male cone	Digital Camera	https://youtu.be/bdlhGdd4F1A
28-04-2020		Female cone	Digital Camera	https://youtu.be/lGicAftzZYk

R. S. S.
PRINCIPAL 01/04/2020

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KAVITHA H-6

03-05-2020		Gnetum Ouvre	Digital Camera	https://youtu.be/zfic78HNoU
05-05-2020		Evolutionary significance of Gnetum	Digital Camera	https://youtu.be/QySEtXlu5QU
20-04-2020	III Bsc	Nitrogen Metabolism	Digital Camera	https://youtu.be/FEUezzsTMPS
23-04-2020		Nitrogen fixation	Digital Camera	https://youtu.be/IGWiw-DwDGO
29-04-2020		Nodule formation	Digital Camera	https://youtu.be/aU5hDL5d1IM
2-05-2020		Nif genes	Digital Camera	https://youtu.be/RfG8xkRmOys
05-05-2020		Mechanism of Nitrogen fixation	Digital Camera	https://youtu.be/zw7onvknVY
7-05-2020		Reductive amination	Digital Camera	https://youtu.be/bzBGOTTthzSU
10-06-2020		Transamination	Digital Camera	https://youtu.be/FhYtd74H7Ro
12-06-2020		Nitrogen cycle	Digital Camera	<u>PDF</u>

Kavitha H-6
21/06/2020

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Details of online classes conducted during lockdown period Department of Botany

Class	Teacher Name	Topic	Subtopic	Web link/ tool used
1 st Bsc CBZ	Dr.M.B Chandrashekar	Economic importance	Role of fungi in Medicine, Agriculture and Industry	Zoom App
		Lichens	1. General account, Structure and reproduction 2. Ecological and Economic importance.	Zoom App
		Management of fungal diseases	1.Koleroga 2. Coffee rust	Zoom App
		Management of fungal diseases	1. Red rot of Sugarcane 2. Grain smut of Sorghum	Zoom App
		Biopesticides	A brief account of Biopesticides	Zoom App
		Biopesticides	N neem, <i>Trichoderma</i>	Zoom App
		Biopesticides	<i>Bacillus Thuerngiensis</i>	Zoom App

Note : 1. Login ID :7903840666
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Class	Teacher Name	Topic	Subtopic	Web link/ tool used
2 nd Bsc CBZ	Dr.M.B Chandrashekar	Experimental embryology	Definition, Totipotency, basic steps in plant tissue culture technique	Zoom App
		Experimental embryology	Nutrient media- basic components, composition of MS & White's media. Tissue culture techniques and their practical applications	Zoom App
		Experimental embryology	Anther culture, Embryo culture, protoplast culture	Zoom App
		Experimental embryology	Embryology in relation to Taxonomy- egs. <i>Trapa</i> , <i>Exocarpus</i>	Zoom App
		Indian botanists and their contributions to Embryology	1.P.Maheshwari, BGL Swamy 2. Structure – Typical Angiosperm flower, Androecium and Gynoecium	Zoom App
		Microsporangium	1.Development & structure of mature anther 2. Anther wall layers	Zoom App
		Microsporangium	Tapetum-types, structure& functions.Sporogenous tissue.	Zoom App
		Microsporogenesis	Microspore mother cells (mmc) , cytokinesis, microspore tetrads	Zoom App
		Abnormalities	1.Pollinia,compound pollengrains 2. Nemece phenomenon	Zoom App
		Microgametogenesis	Formation of vegetative and generative cells, structure of male gametophyte.	Zoom App

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Class	Teacher Name	Topic	Subtopic	Web link/ tool used
3 rd Bsc CBZ	Dr.M.B Chandrashekar	Evolution	1. Origin of life	Zoom App
			2. Theories of evolution	Zoom App
			Modern concepts of evolution	Zoom App
			Role of mutations in evolution	Zoom App
			Gene duplication (2R hypothesis), Big Bang theory.	Zoom App
			Numerical changes in chromosome number, polyploidy and aneuploidy - trisomics and monosomics and Chromosomal aberrations.	Zoom App
			Historical account and objectives of plant breeding	Zoom App
			Vegetative propagation methods (underground plant parts and isolated plant parts - cutting, grafting, layering, gootee, clones)	Zoom App
			Hybridization (intergeneric and interspecific),	Zoom App
			maintenance of germplasm, pollen banks	Zoom App
Quarantine methods	Zoom App			

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