

6

ASSIGNMENT REGISTER
2018-19 ONWARDS

ASSIGNMENT REGISTER

2018-19

S.No. & Date	Group & Paper	Name of the Assignment SEM- <u>V</u>	No. of students taken the Assignment	
1. 28-6-18	III CBZ (TM) Paper III	కణ కవచము - ఉత్తి సూక్ష్మ నిర్మాణము. కణ త్వచము ఉత్తి సూక్ష్మ నిర్మాణము	50	<u>kl</u>
2. 29-6-18	III CBZ (TM) Paper III	క్వాన్ వలయము	49	<u>b</u>
3. 9-7-18	III CBZ (EM) Paper IV III B+BC (EM) Paper IV	cultivation and conservation of Medicinal Plants	25	<u>b</u>
4. 10-7-18	III CBZ (TM) Paper IV	విత్తనాల స్పృహవస్థకు కారణాలు మరియు ఉద్ధిగమించు పద్ధతులు	50	<u>kl</u>
5. 29-6-18	III CBZ (EM) III B+BC (EM)	calvin cycle	50	<u>b</u>
	III CBZ (EM)	Meiosis Significance Definitions from Physiology	20	<u>kl</u>
	III CBZ (EM)	Ascent of Sap Mineral Nutrition Active & Passive absorption of Minerals	20	<u>kl</u>

VI Semester : Paper III		No. of students taken the Assignment	
1-12-18	II CBZ (EM)	Mendels Laws of Inheritance	
		Test Cross Ratios	
20-12-18	III CBZ (EM)	మొదటి ఆనువంకి నిష్పాతాలు	42 <u>kl</u>
22-12-18	III CBZ (TM)	పునః సంయోజక DNA టెక్నాలజీ	39 <u>kl</u>
27-12-18	III CBZ (TM)	బహుసంయోజకత పై అధ్యయనం	42 <u>kl</u>
29-12-18	III CBZ (T.M)	సహజసంకలనం పై అధ్యయనం	40 <u>kl</u>
4-1-19	III CBZ (T.M)	కెంబ్రిక్ పూర్వజాతుల - ఆనువంశికత	39 <u>kl</u>
28-1-19	II CBZ (EM)	Mendels laws of inheritance	15 <u>kl</u>
	III B+BC (EM)	Interaction of genes	6 <u>kl</u>
30-1-19	II CBZ (EM)	Linkage	16 <u>kl</u>
	III B+BC (EM)	Re-DNA technology	6 <u>kl</u>
4-2-19	III B+BC (EM)	Transcription in prokaryotes	6 <u>kl</u>
5-2-19	III CBZ TM, EM, B+BC	Biological Nitrogen Fixation	50 <u>kl</u>
		Phytohormones, Auxins	50 <u>kl</u>
13-2-19	"	Threats to Biodiversity	42 <u>kl</u>
16-2-19	"	Hot Spots of India	40 <u>kl</u>

ASSIGNMENT - 2018-19

SEM - III

S.No	Date	Group	Topic	No. of students attended
1	28.6.18	IIIndB2C (TM)	ಹಂಪೆದ್ರಿಯ ವೃಕ್ಷ ಬಾವಿರಣಿ ವಾತುಮಾಳೆ	40
		[Paper-II]	ವರ್ಗೀಕರಣಕ್ಕೆ ಮುಖ್ಯ ಅನುಕೂಲತೆ	
		Paper	ಪ್ರಾಕೃತಿಕ ಮತ್ತು ಪರಿಚಿತ ಕೃತೃಕ ವರ್ಗೀಕರಣ ವಿಧಾನಗಳು.	
2	29.7.18	II B2C II BTBC (CEM)	International Code of Botanical Nomenclature Basic components of Taxonomy. Herbarium technique Artificial systems of classification	39.
3	24.7.18	II B2C GM	Annonaceae floral characters	33
	23.7.18	II B2C EM	Stamens in Rutaceae	20
	24.7.18	IIInd BTBC		13
4	28.8.18	II B2C (TM)	Cucurbitaceae floral characters Economic importance of Lamiales	34
5	22.1.19	II B2C GM	Biological Nitrogen fixation Deficiency symptoms of Molybdenum, Iron.	33
6	14.2.19	II B2C.	Cyclic- Noncyclic photophosphorylation	32
	19.2.19	II BTBC		15
	11.2.19	II B2C EM	Calvin cycle	23.

ASSIGNMENT - 2018-19

SEM - III

S.No	Date	Group	Topic	No. of Student
1.	18-06-2018	II B.Sc (TM)	బెంథామ్ మరియు హ్యూక్స్ వర్గీకరణను విశదీకరించండి. వర్గీకరణ చివరి ఫలిత మరియు చిహ్నాలను వ్రాయండి.	43
2	07-07-2018	II B.Sc (TM)	ఎంగ్లీష్ మరియు ప్రాంటల్ వర్గీకరణ రెండింటినీ, వాటి చిహ్నాలను (పరిశీలించండి) వ్రాయండి.	31
3	16-07-2018	II B.Sc (TM)	బెంథామ్ మరియు హ్యూక్స్ వర్గీకరణను ఎంగ్లీష్ - ప్రాంటల్ వర్గీకరణతో పోల్చండి.	36
4	20-06-2018	II B.Sc (EM)	Give an account of Bentham and Hooker's system of classification. Discuss its merits and demerits.	30
5	04-07-2018	II B.Sc (EM)	Give an account of Linnaeus classification of Englem and Prantl. mention its merits and demerits.	28
6	18-07-2018	II B.Sc EM	Compare critically Bentham and Hooker's system of classification with that of Englem and Prantl's	35

SEM-T

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Assignments

Paper V - Cell Biology, Genetics and Plant Breeding

SNo	Date	Group	Topics for Assignment	No. of students attended
1.	21-7-19	<u>III</u> B2C(TM) <u>III</u> B2C(EM) <u>III</u> B+BC	Cell Biology - Ultrastructure of Plant cell Ultrastructure of cell wall Models of Plasma Membrane	45 20 15
2.	2-8-19	<u>III</u> B2C (TM) <u>III</u> B2C(EM) <u>III</u> B+BC	} Polytene chromosomes } Lamp-brush chromosomes } B-chromosomes	45 20 15
3.	2-9-19	<u>III</u> B2C (TM) <u>III</u> B2C(EM) <u>III</u> B+BC	Mendel's Laws Linkage - { coupling & Repulsion hypothesis Types of Linkage - chromosomal theory of inheritance	40 20
4.	15-10-19	<u>III</u> B2C TM & EM <u>III</u> B+BC	1. Procedure for construction of genetic maps. 2. Molecular Breeding 3. RFLP (Restriction fragment length polymorphism map)	35 10 14
5.	16-10-19	<u>III</u> B2C TM & EM <u>III</u> B+BC	Plant Introduction Hybridization Technique Hybrid Vigour	42 20 13

K.V. Lakshmi
 Lecturer in Botany

2019-20 Semester III & IV

Assignments

Paper - II - Plant taxonomy & Embryology of Angiosperms

S.no	Date	Group	Topic for Assignment	No. of students attended
Semester III				
1	9-7-19	II B2C (M)	Fundamental components of Taxonomy	58
2	11-7-19	II B2C II BTBC (EN)	Fundamental components of Taxonomy	52
3	21-7-19	II B2C II BTBC (EN)	International Code of Botanical Nomenclature, Herbarium technique	55
4	1-8-19	II B2C (M)	International code of Botanical Nomenclature Herbarium technique	59
5	29-8-19	II B2C (M)		
6	29-8-19	II B2C (EN) II BTBC		
7	29-10-19	II B2C (EM)	structure of anther Types of tapetum Types of Embryosacs	59
8	31-10-19	II B2C II BTBC	structure of anther Types of tapetum Types of Embryosacs.	56
SEMESTER IV [Plant Physiology]				
9	20-12-19	II B2C (M) II BTBC	Biological nitrogen fixation Peribacteroid, Nif genes, Bacteroid Mineral ion deficiency symptoms.	54
10	24-12-19	II B2C TM	Biological Nitrogen fixation Peribacteroid membrane, Nif genes Bacteroid, leg haemoglobin mineral ion deficiency symptoms	60
11	13-2-20	II B2C (M)	Photophosphorylation.	59
12	14-2-20	II B2C II BTBC EMC	Photophosphorylation.	48
13	18-2-20	II B2C TM	Calvin cycle - Differences between C ₃ & C ₄ plants, C ₄ cycle	58
14	20-2-20	II B2C II BTBC EM	Calvin cycle Difference between C ₃ , C ₄ plants, C ₄ cycle.	52

Cluster
Final Year . Paper VIII - A - 2

Ethno Botany and Medicinal Botany
Semester ~~VI~~ VII

Sno	Date	Group	Topic given for Assignment	No. of Students attended
1	24-12-19	III B2C III BTBC EM	Morphology Ethno Botany of Rauwolfia serpentina Trichopus zeylanicus Withania somnifera Artemisia annua. Role of ethnic groups in conservation of plant genetic resources.	51 D
2	25-12-20	III B2C III BTBC EM	Define Biopiracy? Write an essay on Biopiracy. Brief account on traditional knowledge Differences between IPR and Sui-generis system.	53. D

2020-21 PV - Botany Assignments
Sem V - Cell Biology, Genetics & Plant Breeding

S.No. Date	Group & Paper	Name of the Assignment	No. of Students	Initial
9/12/20	III CBZ (TM) for Mid I	Cell Biology Ultrastructure of Plant cell Cell wall - cell membrane	50	<u>KL</u>
19/12/20	"	Special Types of chromosomes Mendels Laws	50	<u>KL</u>
29/12/20	"	1) సహ లగ్నత - సంధానము మరియు వికరణ 2) మూడు జన్యువుల పరాక్రమ సంకరణము 3) పశ్చిమ సంకరణ, పరాక్రమ సంకరణ	50	<u>KL</u>
18-2-21	II (CBZ) (TM) for Mid II	1) DNA నిర్మాణము విధులు 2) DNA ప్రతికృతి 3) RNA రకాలు	45	<u>KL</u>
19/2/21		1) పురస్థాపన - ప్రయోజనాలు, నష్టాలు 2) వరణము 3) సంకరాకరణ - రకాలు - ఉద్దేశ	48	<u>KL</u>
22/2/21		1) సస్యభివృద్ధిలో ఉత్పరివరణం పాత్ర 2) నోమోక్లోనల్ పై విధానాలు 3) కణప్రజననము 4) సస్యభివృద్ధి - లక్ష్యాలు	50	<u>KL</u>

K.V. Lakshmi
Lecturer in Botany

Assignment: 2020-21

Semester: I

Title of the Paper: Fundamentals of Microbes and Non-Vascular Plants

Date S.No	Group Paper	Name of the Assignment	No. of Students	
2 B-6-21	B2C BTBC	Explain the reproduction of Puccinia in both wheat plant and Barbery plant Life cycle of Puccinia	35	D
1 B-6-21	B2C BTBC	Lichen Thallus - Internal structure Reproduction in Lichens Economic Importance of Lichen Explain Reproduction in Rhizopus Citrus Canker Blast Disease of Rice		

Assignment: Semester II
20-21

Semester : II

Title of the paper : Basics of Vascular Plants & Phyto geography
[Pteridophytes, Gymnosperms Taxonomy & Phyto geography]

Date sNo	Group paper	Name of the Assignment	No. of students
21/4/21	BTBC	1. Write an essay on general characters of Pteridophytes 2. Explain reproduction in Lycopodium Short Notes: Protostele, Actinostele, Plectostele Sporophylls, Microphylls, Urostachya Rhopalostachya, Prothallus Heterospory	28
24/4/21	BTBC	1. Write an essay on Reproduction in Marsilea. Short notes: 1) T.S of Marsilea Petiole 2) T.S of Marsilea Rhizome 3) Marsilea Sporocarp 2 Marks: Sporangium, Leptosporangiate Eusporangiate	27
5/10/21	BTBC	1. Write an essay on stelar evolution in Pteridophytes 2) Heterospory & seed habit	24
		3. Explain the reproduction of Cycadeoidea 4) Reproduction in Cycas.	
5/11/21	BTBC	1. Write an Essay on ICN	

Assignment : ²⁰⁻²¹ Sem II - DSM -

Semester : II

title of the paper : pteridophytes, Gymnosperms, Taxonomy
Phytogeography

date S.No	GROUP Paper	NAME OF THE ASSIGNMENT	No. of students
1	B2C _A 28.12.21	vascular evolution	39
	Art. B.C 30.12.21	stelar evolution	27
2	B2C _A 6.1.22	Lycopodium Asexual Reproduction	41
	BtBc 4.1.22	Sporophytic Reproduction.	22
3	B2C 3.2.22	Marselia Rhizome structure	43
	BtBc 5.2.22	Marselia Rhizome Internal	27
5.	B2C 10.3.22	Floral characters of Annonaceae	51
	BtBc 9.3.22	Economic imp. of cucurbits	24
6	B2C 12.4.22	Indian phytogeography	49
	BtBc 7.4.22	phytogeography	21

2022-21 Sem IV DARTMAN
Assignment :

Semester : IV

title of the paper : plant physiology & metabolism

date SNo	GROUP Paper	NAME OF THE ASSIGNMENT	No. of Students	
9/12/20 1.	BZC	Theories of Ascent of sap	45	✓
9/12/20 2.	BZC	stomata structure and mechanism of stomatal movements.	56	✓
9/12/20 3.	BZC	Glycolysis pathway	45	✓
9/12/20 4.	BZC	Krebs cycle	47	✓
9/12/20 5.	BZC	oxidative phosphorylation	45	✓
9/12/20 6.	BZC	Pentose phosphate pathway	40	✓

Assignment: 20-21 DAB TMA TM
8-IV

Semester : IV

title of the paper: Plant Physiology and Metabolism

Date Sno.	GROUP PAPER	NAME OF THE ASSIGNMENT	No. of Students
26-5-21	B208BDE	Photophosphorylation.	40 D
5-6-21		Calvin cycle	42 D
1-7-21		CAM , C ₄ cycle. Differences between C ₃ &C ₄ plants	42 D
4-8-21		Photorespiration	40 D
15-8-21		Biological N ₂ fixation	45 D

Semester :

title of the paper:

[illegible]

Assignment:

Semester :

Title of the Paper :

Sem V P-7 2020-21

Date S.No	Group Paper	NAME OF THE ASSIGNMENT	No. of Student	
1		Type and Structure of Virus	20	10-1-21
2		Replication of Virus	24	
3		Rhizopus - Structure & Reproduction	20	
4		Lichens - Structure & Reproduction		
5		Puccinia - Life cycle		
6		Economic importance of algae		

2
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Semester : I

title of the paper : Microbial diversity in non vascular plants

Date S.NO	Group paper	NAME OF THE ASSIGNMENT	No. of Students
16-2-22			
1.	IMBBC	Types and structures of viruses	26
2.	IMBBC	Replication of viruses.	24
3.	IMBBC	Rhizopus - Structure & reproduction	20
4.	IMBBC	Lichens - Structure & Reproduction	
5.	IMBBC	Puccinia - Life cycle	
6.	IMBBC	Economic importance of algae	

S Padmalathi

G. Paduvalati

2021-22 S.P
Assignment: Paper I

Semester I

title of the paper: Fundamentals of microbes & Non Vascular plants

Date S.NO.	Group paper	NAME OF THE ASSIGNMENT	No. of Students	Date
1.	IBSC CBZ	Types of Viruses	39	21
2.	IBSC CBZ	Replication in Viruses	38	0
3.	IBSC CBZ	Transmission of Viruses	42	
4.	IBSC CBZ	Pasteur experiment & Miller Urey experiment	32	
5.	IBSC CBZ	Actinomyces	31	
6.	IBSC CBZ	Evolution of sporophyte in Bryophytes.	32	

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21-22

Sem I

DSM

date	Group	Topic	no. of students	Initial
16.2.22	IB2C, EM	T.M.V. structure	47	Pan
19.2.22	IB2C, EM	Replication of virus	42	Pan
23.2.22	IB2C, EM	Pasteur experiment & Transformation	46	Pan
26.2.22	IB2C, EM	Gemini virus	44	Pan
1.3.22	IB2C, EM	Actinomyces	45	Pan
5.3.22	IB2C _A EM	Transmission of virus	41	Pan
10.3.22	IB2C _A EM	sporophytic evolution	39	Pan
22.3.22	IB2C _A EM	Algae economic imp.	44	Pan
6.4.22	IB2C EM	puccinia life cycle	42	Pan

Assignment : 2021-22 Paper - III

Semester : III

Title of the paper : Anatomy and Embryology of Angiosperms ; Plant Ecology & Biodiversity.

GROUP paper	NAME OF THE ASSIGNMENT	No. of students	Initial.
31/1/22 B2CEM TM BTB C	What is Microsporogenesis, Explain the development of male gametophyte structure of Anther II Types of Tapetum Pollen kit, Endothecium, Tapetum	90	D
11/2/22 B2CEM TM BTB C	Write about Mono, bi and tetrasporic type of embryo sac development in Angiosperms 2. Write about different types of endosperms in Angiosperms. Short Answer: Structure of ovule 2 Marks: Acul, Micropyle, Caruncle Endothelium, obturator, epistase hypostase, Crassinucellate, tenuis cellate ovule, Synergids.	91	D
28/2/22 B2CEM TM BTB C	Define Productivity and Explain about productivity types 2. Explain secondary productivity 3. P.R. Ratio 2 Marks: Primary Productivity, GPP NPP	89	D
22/3/22 B2CEM BTB C	Assignment Essays 1. Write an essay on Value of Biodiversity and Threats to biodiversity 2. Write an essay on levels of biodiversity ? 3. Write an essay on Biodiversity Hot spots in India. (Biodiversity in North Eastern Himalayas and Western Ghats.) Short answers: IUCN threat-categories, RED data book 3 Role of NBPGR and NBA in the conservation of Biodiversity. 2 marks: Biodiversity, Genetic diversity, Species diversity, Ecosystem diversity, Biodiversity hot spot, IUCN, Red data book, NBPGR, NBA, Earth Summit, Hotspots	90	D

Assignment: Paper - I

Semester

: VI

P₇

2021-22

Title of the paper:

Nursery, Gardening & Floriculture

Date S.No.	Group Paper	NAME OF THE ASSIGNMENT	No. of Students
20-1-22	G	Infrastructure of Nursery	52
22-1-22	f	Nursery Management and Routine Gardening operations	51
2-2-22	f	Different types of gardens and their landscaping.	45
4-2-22	f	Famous gardens of India	40
7-2-22	f	Basic principles of Landscaping and designing of gardens	45
10-2-22	f	Layering and cutting as Vegetative propagation methods.	42
15-2-22	f	Ornamental Palms Bonsai cultivation	40
1-3-22	f	Propagation of ornamental plants by Rhizomes, corm tubers, Bulbs,	55
11-3-22	f	Management of Pests and Diseases	50
1-4-22	f	Cultivation of Marigold	45
6-4-22	f	Cultivation of Lilium	40
11-4-22	f	Cultivation of Roses	45
14-4-22	f	Vase life of flowers - Gladiolous	40

L.V. Lakshmi

Lecturer in Botany

Assignment: Paper BA, **8A**, - 21-22

Semester : Sem VI

2021-22
Title of the paper : Plant Diversity & Human Welfare

date S.No	Group Paper	NAME OF THE ASSIGNMENT	No. of Student
	^{III YR} <u>B2CCEM</u> + <u>B+BC</u> (CEM)	Biodiversity - Different levels of Biodiversity	32
31-1-22		Agrobiodiversity - Various Centres of Origin	31
2-2-22		Loss of ecosystem diversity	30
5-2-22		Biodiversity information management, communication	32
7-2-22		Geographic information systems	31
8-2-22		Solid waste Management	30
14-2-22		Methods of in-situ conservation	32
21-2-22		Important fruit crops & their commercial importance.	31
25-2-22		Cultivated vs wild Plant Taxa	30
		NBPR ; UNEP	
5-3-22		Ex-situ conservation	36
5-3-22		Commercial fruits -	38
5-3-22		Uses of Plants - Wood and their uses.	32
7-3-22		Environmental Impact Assessment	31
10-3-22		Ex-situ conservation	30
11-3-22		Avenue trees - Wood & fibres	38
11-3-22		Ecological foot Print	31

K.V. Lakshmi

Assignment: Paper 8A2 2021-22

Semester: Semester VI

Title of the paper: Ethnobotany and Medicinal Botany.

Date S.No.	Group Paper	NAME OF THE EXPERIMENT	No. of Student	
BZCEM BTBC Lthudye	1. Write an essay on the role of Rauwolfia serpentina and Altimera annua in Ethnomedicine and morphology 2. Write an essay on morphology of Withania somifera & Trichopus zeylanicus and their role in ethnomedicine. Short Answers:- 1. Vitis negundo 2. Azadirachta indica 3. Cassia auriculata 4. Curcuma longa.	53	D	
25/2/22 III BTBC & BTBC	Essays: 1. Write an essay on sharing wealth concept in India. 2. Define Biopiracy? Write an essay on Biopiracy in India. 3. Write an essay on Intellectual property rights. Short answer: 1. Brief Account on Traditional Knowledge 2. Protection of Traditional Knowledge 3. Write short notes on differences between IPR and Sui-generis system. 4. Equity considerations in Traditional knowledge. 5. Write Short notes on plants used as Agricultural Implements.	Assignment 54	D	
23/3/22 III BTBC BTBC	Essays 1. Define in situ conservation. Give a detailed account on Sacred groves, Biosphere reserves. 2. Define insitu conservation. Give a brief account on National parks. 3. Define Ex-situ conservation. Write an essay on Botanical gardens Short Answers 1. Sacred Groves. 2. Endemic & endangered medicinal plants Species. 3. Endangered species. 4. IUCN Red Data Book – Threatened Species classification.	Assignment 54	19	

3. P &
D.S. of Rev

Sl No.	Date	Topic	Group Paper	No. of students
1	6.12.21	Classification of Drugs.	B2C & B4BC	13 22
2	17.12.21	Physical Evaluation of Drugs	B2C & B4BC	15 26
3	30.12.21	Alstonia Bark	B2C & B4BC	16 24
4	5.1.22	Zinzer Drug.	B2C & B4BC	10 18
5	27.1.22	Alkaloids	B2C & B4BC	17 27
6	8.2.22	volatile oils	B2C & B4BC	13 25
7	22.3.22	Vitamins - B complex	B2C & B4BC	17 26
8	25.3.22	Vaccines	D2C & B4BC	14 22

Assignment: 2022-23, Paper-IV
Semester IV

Title of the Paper: Plant Physiology and metabolism

S no	Date	Name of the Assignment
1	4/11/22	Assignment 1 2 Marks questions: 1) Diffusion 2) Imbibition 3) Water potential 4) Osmotic potential 5) Pressure potential 6) Ascent of sap 7) Osmosis 8) Turgor pressure. Short answer questions: 5 marks. 1. Importance of water to plant life 2. Osmosis thistle funnel experiment 3. Absorption of water 4. Ascent of sap 5. Structure of stomata
2	23/7/22	Assignment 2 Essay question 1. What is transpiration? Explain the theories related to mechanism of stomatal movements.
3	12/8/22	Assignment 3 Essay question: 1. What is photophosphorylation? Explain about cyclic and non cyclic photophosphorylation. 2. Explain about Calvin cycle [C ₃ cycle / Reductive pentose phosphate path way]
4	23/8/22	Assignment 4 Short answer questions: 1. C ₄ cycle of Hatch Slack Pathway 2. CAM Pathway. 3. Photorespiration 4. Red Drop & Emerson Enhancement effect 5. Action and absorption spectra. 2 Marks questions: 1. Red drop 2) Cyclic photophosphorylation 3. Non-cyclic photophosphorylation 4. RUBISCO 5. RUBP 6. PEP 7. Kranz anatomy 8. Photorespiration

5. Assignments Essay questions

- ① Define growth and development.
- ② Explain phase and kinetics of growth
- ③ Explain physiological effects of Auxins
- ④ Explain physiological effects of Gibberellins
- ⑤ Explain physiological effects of cytokinins
- ⑥ Explain physiological effects of Abscic acid
- ⑦ Explain physiological effects of ethylene

6. Assignments Shorts answer questions 5M

① phases of growth in Brief.

② Brassinosteroids

③ phytochrome

④ Growth curve

very short answer questions 2M.

⑤ Growth curve ⑥ Apical dominance

⑦ Ethylene ⑧ parthenocarp

⑨ Bolting ⑩ weed killers

⑪ Brassinosteroids ⑫ photoperiodism

⑬ vernalization ⑭ senescence