B.LD.E Association's

S.B. Arts and K.C.P. Science College, Vijayapur,

DEPARTMENT OF BOTANY

"TUTORIALS"

2019-2020

B.LD.E Association's

S.B. Arts and K.C.P. Science College, Vijayapur,

Department of BOTANY

NOTICE

Date :08/07/2019

It is here by informed that the Tutorial classes will be held to the BSc I,III and V semester students from 15/07/2019. The timetable will be displayed on the notice board . All the students must attend the classes .

HEAD
Department of Botany
SB Arts & KCP Science College
VIJAYAPUR-586103.

Principal,
S.B.Arts & K.C.P. Science College,
VIJAYAPUR.

IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur.

TIME-TABLE FOR TUTORIALS

2019-2020

TIME	SUNDAY		
11:30-12:30 PM	BSc I semester	BSc III semester	BSc V semester
1:00-2:00 PM	BSc I semester	BSc III semester	BSc V semester

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B.L.D.E.ASSOCIATION'S
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
RE – ACCREDITED AT THE 'A' LEVEL, IN 3rd CYCLE
Phone: (08352) – 261766, (08352) 262770 Extn. 2223, 2224
Fax: 08352 – 261766 E-mail: bldeasbkcp@gmail.com

Centenary Year 2010

DEPARTMENT OF BOTANY

ATTENDANCE LIST FOR TUTORIALS (2019-2020)

CLASS : BSC I SEMESTER

FACULTY NAME : Ms Shweta Pawar
Ms Shruti Kadam.

Sl.No.	Name of the Student	15/7/19	21/7/19	4/8/19	11/8/19	18/8/19	25/8/19	1/9/19
1	MADHU . YACHARAPPA . BADIGER	P	P	P	P	P	P	P
2	ROHINI . REVANASIDDAPPA . YELAMELI	P	A	P	A	P	P	P
3	VAIBHAV . RAVI . KANNUR	P	P	P	P	A	P	A
4	VAIBHAV . NARASHIMA . KULKARNI	P	P	P	A	P	A	P
5	NIVEDITA . GOVINDAPPA . SINGARADDI	P	P	P	A	P	A	P
6	SACHIN . VITTAL . MALLI	A	P	A	P	A	P	A
7	SUDHA . INAKARAO . CHAVAN	P	P	A	P	A	P	P
8	KARTEEK . PEERAPPA . METRI	A	P	P	P	P	A	P
9	SUSHMA . PRABHUGOUDA . DANNUR	P	A	P	A	P	P	A
10	POOJA . NAGARAJ . TUMBAGI	P	A	A	P	A	P	P
11	SARITA . RAMANNA . BELLUBHI	P	P	P	A	P	A	P
12	VAIBHAV . SUNILKUMAR . KALADAGI	P	A	A	P	A	P	A
13	SUMA . RAJASHEKHAR . KUBASAD	A	P	P	A	P	A	P
14	SPURTI . MAHADEV . KHEDAGI	P	P	P	P	P	P	A
15	SHWETA . VEERANNA . MUGIN	A	A	P	P	P	A	P
16	SHUBHAM . REVAPPA . HALLI	P	P	P	A	P	P	A
17	KHADAR PATEL . SYED PATEL . POLICE BIRADAR	A	P	P	P	A	P	P
18	PALLAVI . BASAVARAJ . BENUR	P	P	P	A	P	P	A
19	RASHMI . RAMANAGOUDA . EVOORA	A	P	P	P	A	P	P
20	SHRILAXMI . MALLIKARJUN . KATTIMANI	P	P	A	P	P	P	A
21	TEJASHWINI . SHIVANANDA . HITNALLI	P	P	P	P	P	P	A
22	RENUKA . KUPENDRA . TONNE	P	A	P	P	A	A	P
23	ISHWAR . VEERABHADRA . KOTENNAVAR	P	A	P	A	P	P	P
24	POOJA . HUCCHESH . VAGGA	P	P	P	P	P	A	P
25	ASHWINI . CHANDRAKANT . POOJARI	A	P	A	P	A	P	P
26	RAKSHITH . SHANKARAGOWDA . TUMBAGI	P	P	P	A	P	P	P
27	KARTHIK . CHANDRASHEKHAR . PATIL	A	P	A	P	A	P	P
28	AKASH . SANGANNA . JANIWAR	P	P	A	P	P	A	A
29	POOJA . PARAMESHWAR . MAGANGERI	P	P	P	P	P	P	P
30	AFRIN . NAZEERHUSEN . BILAGI	P	A	A	A	P	P	P
31	AAISHA . BANDENAVAJ . JAMADAR	A	P	P	P	P	P	A
32	ARVIND . SHRISHAIL . UTNAL	A	P	A	P	A	P	P

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VIJAYAPUR.

33	SHRUTI . SIDDARAM . SHIRSHAYAD	P	P	P	A	P	P	A
34	ANAND . KENCHAPPA . GOKHLE URF KAMBLE	P	P		P	P	P	A
35	SUDHAKAR . RAMACHANDRA . BIRADAR	A	P	P	P	P	A	P
36	JYOTI . VITTAL . MALAGAR	P	P	P	A	P	P	A
37	AMBIKA . APPASAHEB . BIDARAKOTI	A	P	A	P	P	P	P
38	RAMANNA . SHARANAPPA . PUTANI	P	A	P	A	P	A	P
39	ANIL . BHIMANNA . PUJARI	P	P	P	A	P	P	P
40	SANGEETA . IRAGONDA . KHAVASPUR	A	P	A	P	A	P	A
41	SRUSHTY . KALLAPPA . SAVALI	A	P	A	A	P	P	A
42	ASHWINI . ASHOK . PUJARI	P	A	P	A	P	A	P
43	AISHWARYA . REVANSIDDA . PUJARI	P	P	P	P	A	P	P
44	ARATI . ANNASAHEB . PATIL	P	A	P	A	P	A	A
45	PRIYANKA . ISHWARAPPA . DALAWAI	P	P	P	P	A	P	A
46	VIJAYALAXMI . BHIMANNA . HEGADI	A	P	A	P	P	P	P
47	RAJESHWARI . BASAPPA . BHUYAR	P	P	P	A	P	P	P
48	AISHWARYA . APPASAHEB . MADAGI	P	A	P	P	P	P	A
49	SNEHA . JINNAPPA . SIRIGOUD	P	P	P	A	P	P	A
50	SHIVALINGAMMA . S . JAYAGOND	A	P	P	P	P	P	A
51	NIKITA . ANNARAY . SALUTAGI	P	P	P	A	P	P	P
52	AMIT . SIDDU . KAMAT	P	A	P	P	P	A	A
53	LAKKAPPA . BASAVARAJ . HUNACHYAL	P	P	A	P	P	A	P
54	PARVATI . BASAWARAJ . PATIL	P	P	P	P	P	P	P
55	MADHU . RAVI . PATIL	P	P	P	P	P	P	P
56	NIKITA . SURESH . NAIK	A	P	A	P	P	P	A
57	SUDHARANI . MURIGEPPA . SOUDI	A	P	A	P	A	P	P
58	RENUKA . ARJUN . SIDWADKAR	P	P	A	P	P	P	A
59	ASMITA . LAXMAN . GONDALI	P	P	P	A	P	P	A
60	AKSHATA . PARASHURAM . NAYAK	P	P	P	A	P	P	P
61	KAVYA . MALLIKARJUN . SHIVAKERI	A	P	P	P	A	P	P
62	PRAKASH . YAMANAPPA . ULLAGADDI	P	P	P	P	A	P	P
63	POOJA . DEEPAK . DASHAVANT	A	P	P	A	P	P	A
64	PRATIBHA . GURUNATH . KABADE	P	A	P	P	P	P	A
65	SARASWATI . NARAYAN . PUJARI	P	P	A	P	P	A	P
66	SUREKHA . TATYASAHEB . PATIL	P	P	A	P	P	P	A
67	BRAMARAMBIKADEVI . BASAVARAJ . PATIL	A	P	P	A	P	A	P
68	DEVIKA . DAYANAND . SINHASANMATH	P	A	P	P	P	P	P
69	LAKSHMI . ASHOK . KUMBAR	A	P	A	P	A	P	A
70	UDESH . SHREESHAIL . JANAWAD	P	P	P	A	P	A	P
71	SAGAR . BASAVARAJ . SEETHNOOR	P	A	P	P	A	P	A
72	RASHMI . MALLIKARJUN . BAGOJI	P	P	A	A	P	P	P
73	NIMBABAI . HANMANTH . GHORPADE	A	P	P	P	P	A	A
74	AKSHATA . BABU . NAYAK	P	A	P	A	A	P	P
75	VIJAYAKUMAR . BASAVARAJ . HUGAR	A	P	P	P	P	A	A
76	BHAGYA . RAJENDRA B B . BIRADAR	P	P	A	A	P	P	P
77	AKASH . ASHOK . CHALLAGI	A	A	P	P	P	A	P
78	SUNIL . SURESH . GURAV	P	A	P	A	P	P	A

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79	ABHISHEK . BASAVARAJ . MADIKESHWAR	P	P	A	A	P	A	P
80	SUPRIYA . SHIVANGOUDA . PATIL	A	P	P	P	P	P	P
81	MEGHA . ANAPPA . GAVANDI	P	A	A	P	A	P	A
82	JYOTI . BASANAGOUDA . ANGADAGERI	P	P	P	P	P	P	P
83	AMOGEPPA . KALYANI . GOUDAGAON	A		A	A	P	A	A
84	RAMESH . KASHINATH . NAVI	P	A	P	P	A	P	P
85	SUSHMITA . S . KODEKALMATH	P	P	P	P	P	A	P
86	AKASH . SHARANAPPA . ANGADI	A	P	A	A	P	P	P
87	SUSHMA . KANTAGOUDA . PATIL	P	A	P	P	P	P	P
88	GEETA . SOMANAGOUDA . MALIPATIL	A	P	P	P	A	P	P
89	PREETI . SHIVANAND . NAGATHAN	P	A	P	A	P	A	A
90	PRIYANKA . ASHWITH . HADAPAD	P	P	A	P	P	P	P
91	BHAGYASHREE . SATIRAPPAGOUDA . BIRADAR	A	P	P	A	A	P	A
92	SHRAVYA . SURESH . SAVALASANG	P	A	A	P	P	A	P
93	MEENAKSHI . GOUDAPPA . PATIL	P	P	P	P	P	P	A
94	ABHILASH . SHIVANAND . MUJANNI	A	P	A	A	P	P	A
95	NITESHKUMAR . SANGAPPA . PUJARI	P	P	P	P	P	P	P
96	MANJU . BHIMANNA . NAGUR	P	A	A	P	A	A	P
97	MALLIKARJUN . SHARANGOUD . AVARADI	A	P	P	P	P	P	P
98	KAMALAKAR . SUBHAS . AWARADI	P	P	A	P	P	P	A
99	APOORVA . PARAGOUDA . BAGALI	P	A	P	A	P	A	P
100	ANUSHREE . SHRISHAIL . MASALI	P	P	P	P	A	P	A
101	APEKSHA . PRADEEP . SHIRASHYAD	A	P	A	P	P	P	P
102	SNEHA . CHANDRASHEEKAR . KUMBAR	P	A	P	P	A	P	P
103	VIJAKUMAR . GURAPPA . MURAGANUR	A	P	P	A	P	A	A
104	MUSKAN . MAIBOOBSAB . BAGWAN	P	A	P	P	A	P	P
105	PRASHANT . BASAPPA . JANAWAD	P	P	P	A	P	P	A
106	LAXMI . HANAMANTARAYA . AWATI	A	P	A	P	P	P	P
107	AKILA . BASAVARAJ . KARANI	P	P	P	P	P	A	P
108	SAVITA . SANNAPPA . MINAJAGI	P	A	P	P	A	P	P
109	SUHASINI . RAVINDRA . ARAKERI	P	P	P	A	P	P	A
110	VIDYASHREE . IRAPPA . AWATI	A	P	P	P	P	A	P
111	SHRIDEVI . BASANAGOUDA . PATIL	P	P	A	P	A	P	P
112	SUDHA . RAMESH . BEERANAGADDI	A	P	P	A	P	P	A
113	BASAVRASHMI . NANAGOUDA . BIRADAR	P	A	P	P	P	A	P
114	HARSHAVARDHAN . BASAVARAJ . KATTIMANI	P	P	P	A	P	P	P
115	RASHMI . GURUPAD . DASHYAL	A	P	A	P	P	P	A
116	ANJALI . SHANKRAPPA . BIRADAR	P	A	P	P	A	P	P
117	NAYANA . NAGARAJ . MASALI	P	P	A	P	P	P	A
118	SHARADA . KALYANAPPA . DIWANI	A	P	P	P	A	P	P
119	HARSHITHAKUMARI H K . HARISHKUMAR K . .	P	P	P	A	P	A	P
120	SHIVARAJ . HANAMANT . NATEKAR	P	A	P	P	P	P	A
121	SANGAMESH . LAXMAN . BIRADAR	P	P	P	P	A	P	P
122	SHREEPRASAD . PAVADEPPA . SAGAR	A	P	A	P	P	P	P
123	KALAVATI . NAGAPPA . BIRADAR	P	P	P	A	P	A	P
124	PRATIKSHA . PARASHURAM . INGALE	P	A	P	P	P	P	A
125	ANKITA . RAMANNA . CHAPPAR	P	P	P	P	A	P	P
126	SHREYA . SHARANAPPA . KOLUR	P	P	A	P	P	P	A

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127	SUSHMITHA . ASHOK . UPPALADINNI	A	A	P	A	P	P	A
128	VANISHREE . VITTAL . DASHAVANT	A	P	A	P	P	P	P
129	DATTAPPA . VITTHAPPA . HOSAMANI	P	P	P	P	A	A	P

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Centenary Year 2010

DEPARTMENT OF BOTANY

ATTENDANCE LIST FOR TUTORIALS (2019-20)

CLASS: B.SC III SEMESTER **FACULTY NAME:** Shruti Kadam & Satyveda. J.

SL. NO	NAME OF THE STUDENT	15/7/19	21/7/19	4/8/19	11/8/19	18/8/19	25/8/19	1/9/19
1.	JAYASHREE BHOSAGI	P	A	P	P	P	A	P
2.	PURNIMA JAMBAGI	P	P	P	A	P	P	P
3.	CHAITRA ALOOR	P	P	P	P	P	P	P
4.	MAMATA SUIRUR	P	A	P	A	P	P	P
5.	MAHALAXMI MUCHCHANDI	P	P	P	P	P	P	P
6.	KOMAL LONARI	P	P	P	P	P	A	P
7.	ASHARANI MOLE	P	P	A	A	P	P	A
8.	BHAGYASHREE HATTALLI	P	A	P	P	P	P	P
9.	KALPANA HITNALLI	P	P	P	P	P	P	P
10.	BHUVANESHWARI M	A	P	A	P	A	P	A
11.	SOUMYA UMARANI	P	A	P		P	P	P
12.	SNEHA MUCHCHANDI	P	P	A	P	P	P	P
13.	POOJA PATIL		A	P	P	A	P	P
14.	SAHEBAGOUDA DUMMADRI	P	P		P	P	P	P
15.	MEGHA SANADHANI	A	A	P	A	P	P	A
16.	SHWETA SALADAHALLI	P	P	A	P	P	P	P
17.	ASMITA PANGUDWALE	A	P	P	P	A	P	P
18.	PRIYANKA PUJARI	P	A	A	P	P	P	P
19.	SHREYA ANAGAWADI	A	P	P	P	P	A	P
20.	SEEMA HIREMATH	P	P	P	P		P	A
21.	CHAITRA LAMANI	P	A	P	P	P	A	P
22.	BHAGYASHREE KOLAKAR	A	P	A	P	A	P	A
23.	RINKU PATEL	P	P	P	A	P	A	P
24.	VIDYA NAGARAL	P	A	A	P	A	P	P
25.	RANI TAVASE	P	A	P	A	P	A	P
26.	LAVANYA GODEKAR	A	P	A	P	A	P	A
27.	SMRITI NAIK	A	A	P	A	P	A	P
28.	AISHWARYA KABADE	P	P	P	A	P	P	A
29.	BASAMMA MADDARAKI	P	P	A	P	P	A	P
30.	DEVI BIRADAR	A	A	P	A	A	P	A
31.	ANKITA POOJARI	P	P	P	P	P	A	A
32.	AMARAMMA BIRADAR	A	P	P	A	A	P	P
33.	KAVERI TILLIHAL	P	A	A	P	P	A	A
34.	NAJMA KUDALAGI	P	P	P	A	A	P	P
35.	RENUKA GORAGORI	P	A		P	P	A	P
36.	VIDYARAANI LAALASANGI	A	P	P	A	A	P	P
37.	DUNDAPPA BIRADAR	P	P	P	P	P	P	P
38.	GIRISH MANUR	A	A	A	A	P	P	P
39.	GURURAJ HALLAD	P	P	P	P	P	P	A
40.	BHUVANESHWARI C	P	P	A	P	A	P	P
41.	PRAGATI NANDUR	A	P	P	P	A	P	P

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42.	POOJA NAIK	P	P	P	P	P	A	P
43.	PAVITRA DALAWAI	P		P	P	P	P	
44.	VIJAYALAXMI JADHAV	A	P	P	P	P	P	P
45.	LAXMI TAKKALAKI	P	P	A	P	P	P	A
46.	CHAITRA HERAKAL	P	P	P	A	P	P	P
47.	SUDHARANI SANADI	P	P	P	P	A	P	P
48.	SUNITA HIROLLI	P	A	P	A	P	P	P
49.	KAJAL HALAKUDE	P	P	A	P	P	P	A
50.	SHIVANI KOKATNUR	P	P	P	A	P	A	P
51.	MUTTAPPA JAMAKHANDI	P	P	P	P	P	P	P
52.	SHUBHAM KAMBLE	P	P	P	A	P	P	P
53.	KAVERI THAKKANNAVAR	P	A	P	P	A	P	P
54.	VEENA SANGALAD	P	A	P	A	P	P	P
55.	SUDHARANI KALLOLLI	P	P	A	P	P	P	P
56.	ANNARAYA PATIL	A	P	P		P	A	P
57.	PAVITRA .	P	P	P	P		A	P
58.	PREMA YARANAL	A	P	P	P	P	P	P
59.	AKSHATA BHUSHETTI	P	A	P	P	A	A	P
60.	KAVERI PAWAR	P	P	P	A	P	P	A
61.	RAJASHREE BOGAR	P	P	P	P	P	A	A
62.	AKSHATA LIMAKAR	A	A	P	A	P	A	P
63.	ASHWINI .RATHOD	P	P	A	P	A	P	P
64.	BHAGYASHREE KARENNI	P	P	P	P	P	P	A
65.	KIRAN TARAPUR	P	A	P	P	A	P	P
66.	SANGANNA KARANDE	A	P	P	A	P	P	P
67.	NANDABASAPPA PUJARI	A	P	P	P	A	A	P
68.	SHRAVANAKUMAR M	P	A	P	A	A	P	P
69.	ANELKUMAR MARTUR	A	P	P	P	P	A	P
70.	AKASH RATHOD	P	P	P	A	A	P	P
71.	ANIL PADATARE	P	P	P	P	P	P	P
72.	PARVATI BIRADAR	P	A	P	P	P	P	P
73.	SHAILA PATTAR	P	P	P	P	P	A	P
74.	ASHWINI CHOUDRI	A	A	A	P	P	P	A
75.	RESHMA PAWAR	P	P	P	P	P	P	A
76.	PRIYANKA CHAVAN	P	P	P	P	P	P	P
77.	SIDDHAMMA HIROLI	A	P	A	P	P	P	P
78.	TEJASWINI BISWAL	P	A	P	P	P	P	A
79.	SAMARTH ATHARGA	P	A	P	A	P	A	P
80.	ABHISHEK SHEKADAR	P	P	A	P	P	P	A
81.	PRAJWAL IJERI	P	P	P	P	A	P	P
82.	JYOTI RATHOD	A	P	P	P	P	P	A
83.	PREETI KUMARI .	A	P	P	A	P	P	P
84.	BHAVANAKNVAR RAJPUT	P	P	P	P	P	P	P
85.	NISHA RATHOD	A	A	P	P	P	P	P
86.	POOJA MUNJANNI	P	P	P	P	P	P	P
87.	AVINASH PATIL	P	A	A	P	P	P	A
88.	SIDDRAMAYYA SATTIGERI	P	P	P	P	P	P	P
89.	MARUTI RATHOD	A	P	P	P	P	A	P
90.	NITIN JADHAV	P	P	P	P	A	P	P
91.	SIDDARTH PATIL	P	P	P	P	P	A	A
92.	VISHAL MAYUR	P	A	P	P	P	P	P
93.	BASAVARAJ PUJARI		P	P	A		P	P
94.	AKASHA CHAVAN	P	P	P	P	P	P	P

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95.	VIJAYALAXI HUNASAGI	P	A	P	P	P	A	P
96.	AMRUTA BILUR	P	P	A	P	P	P	P
97.	TEJASWINI .	A	P	P	P	P	A	A
98.	RESHMA TARSE	P	P	P	P	P	P	P
99.	BHARGAVI NAVI	P	P	A	P	A	P	P
100.	JYOTI TERADAL	P	P	P	A	P	P	P
101.	SUNANDA BIRADAR	P	P	P	P	P	P	A
102.	SHRISHAIL DHAVALAGI	P	P	P	A	P	P	P
103.	SHREELAXMI KAMASHETTY	P	P	A	P	P	P	P
104.	SHIVANAND PUJARI	P	P	P	A	P	P	P
105.	AKASH PURANI	P	P	P	A	P	P	P
106.	AKASH HADIMANI	P	P	P	P	A	P	P
107.	AVINASH BIRADAR	P	P	P	P	P	A	P
108.	SACHIN BIRADAR	P	A	P	P	P	P	P
109.	MALLIKARJUN BUDIHAL	A	P	P	P	A	P	P
110.	GANESH REDDI	P	P	P	P	P	P	P
111.	AMIT KORI	P	P	P	P	P	P	P
112.	AMIT JADHAV	P	P	P	P	P	P	P
113.	MALLANAGOWDA PATILA	P	P	P	P	P	P	A
114.	SUSHMITA BIRADAR	P	P	P	P		P	P
115.	ARCHANA NANDARAGI	P	P	P	A	P	P	P
116.	RUDRAMMA GHOOLI	P	P	P	P	P	A	P
117.	LAXMIBAI PATIL	A	P	P	P	P	P	P
118.	POOJA BAGALAKOT	P	P	P	P	P	A	A
119.	BINDU BAJANTRI	A	P	P	A	P	A	P
120.	PRIYANKA SAVANT	A	P	P	A	P	P	
121.	NIVEDITA BOMMANAHALLI	P	P	P	A	P	P	P
122.	LAXMI MUTAGOND	P	P	P	P	P	P	P
123.	AKHILA PATIL	A	P	A	P	P	P	A
124.	BHAVANI BAGEWADI	P	P	P	A	P	P	P
125.	SHRINIVAS KOULAGI	P	P	P	A	P	P	P
126.	ABHISHEK PUJARI	P	P	P	P	P	P	P
127.	SHASHIKUMAR HARANAL	P	P	P	A	P	P	A
128.	RAHUL BIDARKOTI	P	P	P	P		P	P
129.	ASHOK AJANAL	A	P	P	P	P	A	P
130.	AMOGHASIDDA M	P	P	P	P	P	P	A
131.	KAVYA DESHPANDE	P	P	P	A	P	P	P
132.	AKSHATA SANADI	P	P	P	P	P	P	P
133.	SWATI MUTTAGI	P	A	P	P	P	A	P
134.	SHANKARALING A	P	A	P	P		P	P
135.	PREETI TELI	P	P	P	P	P	P	A
136.	VIJAYKUMAR PUJARI	P	A	A	P	P		P
137.	NIKITA KANASE	P	P	P	P	P	P	P

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Centenary Year 2010

DEPARTMENT OF BOTANY

ATTENDANCE LIST FOR TUTORIALS (2019-20)

CLASS: B.SC V SEMESTER **FACULTY NAME:** Shweta pawar. satyveda.J.

SL. NO	NAME OF THE STUDENT	15/7/19	21/7/19	4/8/19	11/8/19	18/8/19	25/8/19	1/9/19
1.	POOJASHRI METRI	P	P	A	P	P	P	P
2.	YADAVI KODATE	P	P	P	A	A	P	P
3.	ASHWINI RATHOD	P	P	A	P	P	P	A
4.	ASHWINI . HAJERI	P	A	P	P	A	P	P
5.	KRISHNAVATI ..KUNDARAGI	A	P	P	P	P	P	P
6.	SUSHMITA. TAKKALAKI	P	P	P	P	P	P	P
7.	SHRADDHA. GAYAKWAD	P	P	P	P	P	P	P
8.	SHRIDEVI . BABU . TORAVI	P	P	P	P	A	P	P
9.	SHOBHA . NIMBARGI	P	P	P	P	P	P	P
10.	POOJA . HATAGANI	A	P	A	A	P	P	A
11.	SAMPREETA . HIREMATH	P	P	P	P	P	P	P
12.	SOUMYA . . PATIL		P	P		P	P	P
13.	DEEPA. BAGEWADI	P	P	P	A	P	P	P
14.	POOJA WAGAMORE		P	P	P	P	P	P
15.	PAVAN . PUJARI	P	P	P	P	P	P	P
16.	ASHRAF . MAHIBOOB . LONI	A	P	P	P	A	P	
17.	YALLALINGA . DHULKHED	P	P	P	P	P	P	P
18.	SOMANATH . . DONAGI		P	A	P	P		A
19.	SHREESHAIL .. METRI	P	P	P	P	P	A	P
20.	RANJANA . TAKKALAKI	P	P	A	P	P	P	P
21.	KAVERI . MARAGUR	P	P	P	P	P	P	P
22.	BHUVANESHWARI.K	A	P	P	P	P	P	P
23.	ASHA. KASHETTI	P	P	P	P	D	A	P
24.	ANNAPOORNA .WADDAR	P	P	P	P	P	P	P
25.	RADHA . N . REDDY	P	A	P	P	P	P	A
26.	SAHANA . BILGI	P	P	P	P	P	P	P
27.	KAVYA .YELADAGI	A	P	P	P	P	P	P
28.	KOMAL . GARAD	P	P	P	A	P	P	P
29.	GURUDEVI . . BADADAL	P	P	P	P	P	A	P
30.	AISHWARYA . . YARANAL	P	P	P	P	P	P	P
31.	DEEPA .. MAMADAPUR	P	A	P	P	P	P	P
32.	PRATIKSHA. NAYKODI	P	P	P	P	A	P	P
33.	SUDHA . TALAWAR	P	P	P	P	P	P	P
34.	LAKSHMI. HACHAREDDY	P	P	P	P	P	A	A
35.	PRATHIBHA . GUNNAPUR	P	P	P	P	P	P	A
36.	PRATIKSHA . PATTAR	P	P	P	A	P	P	P
37.	BHARATI . MULAWAD	P	A	P	P	P	P	
38.	NIVEDITA . . JOGUR	P	P	P	P	P	P	P
39.	POORNIMA .. HALLI	P	P	P	P	P	P	P
40.	DANAMMA. HANDIGANUR	P	P	P	P	P	P	P
41.	SNEHA .. KATAKADHAND	P	P	P	P	P	P	P

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42.	SHANTAPPA .GUNDAGI	P	P	A	P	P	P	A
43.	NAVEEN . . HOSAMANI	A	A	P		P	P	P
44.	DASTGIR. NADAF	P	P	P	P	P		A
45.	PRASHANT. KAMBALE	A	P	P	P	P	P	P
46.	JATTEPPA. SHIRAKANALLI	P	P	P	P	A	P	P
47.	SIDDU . VITTHAL . GADDI	P	A	P	P	P	P	
48.	SACHIN . SAJJAN	P	P	A	A	P	P	P
49.	PRIYANK. MAMADAPUR	P	P	P	P	P	P	P
50.	SUDHA . HIREMATH	P	A	P	P	P	P	P
51.	AISHWARYA . IRASUR	P	P	P	P	P	P	P
52.	AKASH . HIREMATH	P	P	P	P	P	P	P
53.	ASHA . . SHANAVALE	P	P	P	A	P	P	A
54.	SHEETAL . JATTI	P	A	P	P	P	P	P
55.	RAJESHWARI .. HONAWAD	A	P	P	P	A		P
56.	SAVITA . RATHOD	P	P	A	P	P	P	P
57.	SHANKARAYYA. HIREMATH	P		P	P	P	A	P
58.	SHARANU .. MURAGOD	P	P	A	P	P	P	P
59.	MALLIKARJUN MATHAPATI	P	P	P	P	P	P	P
60.	SUSHMA .. HERALAGI	P	P	P	P	A	P	P
61.	PREMA . SUBHAS . ALLOLLI	P	P	P	P	P	P	A
62.	SUSHMA .. BIRADAR	P	P	P	P	P	P	P
63.	SRISHTI . BIRADAR	A	P	P	P	P	P	A
64.	POOJA .. KANAMADI	P	A	P	P	P	P	P
65.	PREMA .. HARIJAN	P	P	P	P	P	P	A
66.	REVATI . SURESH . BAGALI	P	P	A	P	A	P	P
67.	AYISHA .. MUJAWAR	P	P	P	P	P	P	P
68.	SNEHA . RAMESH . HORTI	A	P	P	A	P	P	P
69.	SNEHA . YADRAMI	P	P	P	P	P	A	A
70.	VITTAL .. DUDAGI	P	P	P	P	P	P	P
71.	NEHAA .. CHOUGULE	P	A	P	P	A	P	P
72.	SHAMBHAVI. BHUSHETTI	P	P	P	P	P	P	A
73.	TEJASHWINI.B	P	P	A	P	P	P	P
74.	APOORVA. HIROLLI	P	P	P	P	A	P	A
75.	AISHWARYA. KAVITAL	P	P	P	P	P	A	P
76.	PRIYA. PATIL	P	P	P	P	P	P	P
77.	RASHMI . PRANESH . JOSHI	A	P	A	P	P	P	P
78.	ASHWINI . . UPPAR	P	P	P	P	A	P	A
79.	POOJA .. HIRAGOND	P	P	P	P	P	A	P
80.	ANITA . SHRISHAIL . DESAI	P	A	P	P	P	P	P
81.	ASHWINI .. PATIL	P	P	P	P	P	P	P
82.	SOUMYASHREE . . KOLARI	P	A	P	P	P	P	P
83.	SHWETA . GIDAVEER	P	P	P	P	P	P	P
84.	ARCHANA . RATHOD	P	P	P	P	P	P	P
85.	PREETI . ASHOK . GADYAL	P	P	P	A	P	P	P
86.	LAXMI . BADIGER	P	P	P	P	A	P	P
87.	AKSHAYKUMAR. TOLUNUR	A	P	P	P	P	P	P
88.	BASAVARAJ .. PATIL	P	A		P	P	P	A
89.	BASAVARAJ .. GOBBI	P	P	P	P	P	P	P
90.	TIPPANAGOUDA .. HALLI	P	P	P	P	A	P	P
91.	APPAJI . VILAS . KAMBLE	P	P	P	P	P	P	P
92.	PINTU . TUKARAM . RATHOD	P	P	P	P	P	P	A
93.	KAMALABAI . . DIVATAGI	P	P	P	P	P	P	P
94.	PARVATI .. DALAVAYI	A	P	P	P	A	A	P

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95.	SHREYA . MADABHAVI	P	P	P	A	A	A	P	
96.	AISHWARYA. GAIKWAD	A	P	P	P	P	P	P	
97.	SHRUTI . NANDASHETTI	P	P	P	P	A	P	A	
98.	MEGHA .. PATTAR	P	P	P	P	P	P	P	
99.	MAHALAKSHMI . S . .	P	P	P	P	P	P	P	
100.	SWAPNA . . BANDARGATI	P	P	A	P	P	A	P	
101.	VAISHNAVI. NILAGAR	P	P	P	P	P	P	P	
102.	ASHWINI . . INGALAGERI	P	P	P	P	P	P	P	
103.	ROJA .. PATIL	P	P	P	P	P	P	P	
104.	ANUSHA .. MAHISHI	P	P	P	P	P	P	P	
105.	SHRIDHAR .. KUDARI	P	P	P	P	P	A	P	
106.	MALLIKARJUN .. MALLAD		P	P	P	A	P	P	
107.	BHIMANNA .. SHAKHAPUR	P	P	A	P	P	P	P	
108.	SHIVANAND . . BIRADAR	A	P	P	P	P	P	P	
109.	RAMESH . SOMU . RATHOD	P	P	P	P	P	A	P	
110.	HEMANT . RAYABAGI	P	A	P	P	P	P	P	
111.	VISHWANATH . BIRADAR	P	P	P	P	P	P	P	
112.	SOMANATH . SUNAGAR	P	P	P	P	P	P	P	
113.	ABHILASH . C	P	P	P	P	P	A	P	
114.	SACHIN . METRI	P	A	P	P	P	P	P	
115.	MADAGOND . . BIRADAR	P	P	P	P	P	P	A	
116.	GURURAJA . DYAMAN	P	P	P	P	P	P	P	
117.	NINGARAJ . MAHAMANI	A	P	P	P	A	P	P	
118.	HANAMANTARAYAGOUD . B	P	P	A	P	P	P	P	
119.	JYOTI . SHREESHAIL . NAD	P	P	P	P	P	P	P	
120.	RAGHUVEER . K	A	P	P	P	P	P	A	
121.	NAGESH .. NINGADALLI	P	P	P	A	P	P	P	
122.	VIKRAM . . RATHOD	P	P	P	P	A	P	P	
123.	SACHIN .. ROOPANOOR	P	A	P	P	P	P	P	
124.	ABDULAJEEJ . NADAF	P	P	P	P	P	P	P	
125.	AKASH . YALLAPPA . KATTI	P	P	P	P	P	P	P	
126.	DATTAPPA . . MARAGOND	P	A	P	P	P	P	P	
127.	ARAVIND H . V . .	A	P	P	P	P	A	P	
128.	AJAY . D . KADAGOL	P	P	P	A	A	P	P	
129.	ASHWINI . SAJJAN	P	P	P	P	P	P	P	
130.	SHUBHANGINI .. NIKKAM	P	A	P	P	P	P	A	
131.	ASHPAK . BHAGWAN	A	P	P	P	P	P	P	
132.	AKSHATA .. PATED	P	P	P	P	P	P	A	
133.	GOURAMMA .. TALAGERI	P	P	P	P	P	P	P	
134.	CHANDRIKA . SAJJAN	P	P	P	P	P	P	P	
135.	ANNAPOORNA . TALAVAR	P	P	P	P	P	P	P	
136.	POOJA . SINAKHED	A	P	P	P	P	P	A	

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19-20

- **CHLOROPLAST**

- The word *chloroplast is* derived from the Greek words *chloros*, which means green, and *plastes*, which means "the one who forms".
- Chloroplasts are a type of membrane-bound plastids that contain a network of membranes embedded into a liquid matrix and harbor the photosynthetic pigment called chlorophyll.
- It is this pigment that imparts a green color to plant parts and serves to capture light energy.
- Chloroplasts can be found in the cells of the mesophyll in plant leaves.
- There are usually 30-40 per mesophyll cells.

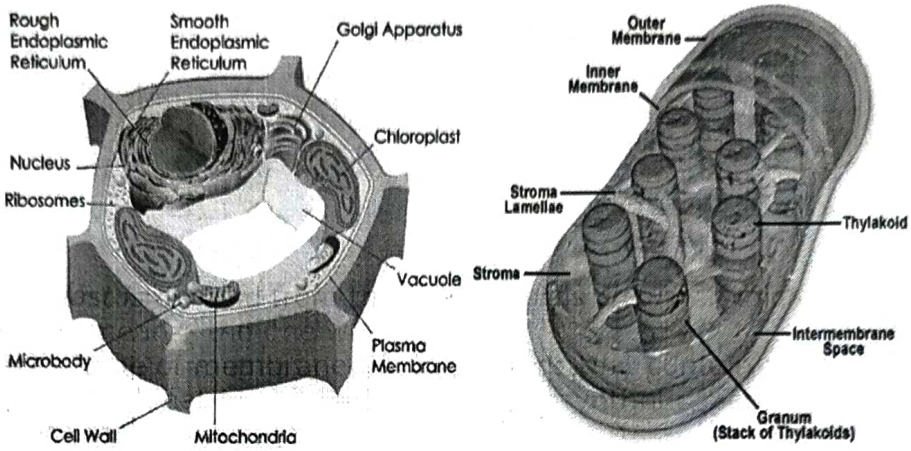

Figure: Diagram of Chloroplasts

Structure of Chloroplasts

- Chloroplasts found in higher plants are generally biconvex or planoconvex shaped.
- In different plants, however, chloroplasts may have different shapes, varying from spheroid, filamentous saucer-shaped, discoid or ovoid-shaped.
- They can be found in the cells of the mesophyll in plant leaves. They are vesicular and have a colorless center.
- The average size of the chloroplast is 4-6 Âµ in diameter and 1-3 Âµ in thickness.

The chloroplast has an inner and outer membrane with an empty intermediate space in between. Inside the chloroplast are stacks of thylakoids, called grana, as well as stroma, the dense fluid inside of the chloroplast. These thylakoids contain the chlorophyll that is necessary for the plant to go through photosynthesis. The space the chlorophyll fills is called the thylakoid space.
A chloroplast thus has the following parts:

1. **Envelope (Outer membrane)**

It is a semi-porous membrane and is permeable to small molecules and ions, which diffuses easily. The outer membrane is not permeable to larger proteins.

2. **Intermembrane Space**

It is usually a thin inter-membrane space about 10-20 nanometers and it is present between the outer and the inner membrane of the chloroplast.

3. **Inner membrane** The inner membrane of the chloroplast forms a border to the stroma. It regulates the passage of materials in and out of the chloroplast. In addition to regulation activity, fatty acids, lipids, and carotenoids are synthesized in the inner chloroplast membrane.
4. **Stroma**

Stroma is an alkaline, aqueous fluid that is protein-rich and is present within the inner membrane of the chloroplast. The space outside the thylakoid space is called the stroma. The chloroplast DNA chloroplast ribosomes and the thylakoid system, starch granules and many proteins are found floating around the stroma.

5. **Thylakoid System**

Continued

The thylakoid system is suspended in the stroma. The thylakoid system is a collection of membranous sacs called thylakoids. The chlorophyll is found in the thylakoids and is the sight for the process of light reactions of photosynthesis to happen. The thylakoids are arranged in stacks known as grana. Each granum contains around 10-20 thylakoids.

Peripheral Reticulum

The chloroplasts of certain plants contain an additional set of membranous tubules called peripheral reticulum that originates from the inner membrane of the envelope. Tiny vesicles bud off from the inner membrane of the chloroplast and assemble to form the tubules of the peripheral reticulum.

Functions of Chloroplasts

- Chloroplasts are the sites for photosynthesis, which comprises a set of light-dependent and light-independent reactions to harness solar energy and convert it into chemical energy.
- The components of chloroplast participate in several regulatory functions of the cell as well as in photorespiration.
- Chloroplasts also provide diverse metabolic activities for plant cells, including the synthesis of fatty acids, membrane lipids, isoprenoids, tetrapyrroles, starch, and hormones.
- Plants lack specialized immune cells—all plant cells participate in the plant response.
- The chloroplasts with the **nucleus** and cell membrane and **ER** are the key organelles of pathogen defense.
- Chloroplasts can serve as cellular sensors.

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Photophosphorylation:

Type # 1. Cyclic Photophosphorylation:

It is a process of photophosphorylation in which an electron expelled by the excited photo-centre is returned to it after passing through a series of electron carriers. It occurs under conditions of low light intensity, wave-length longer than 680 nm and when CO_2 fixation is inhibited.

Absence of CO_2 fixation results in non-requirement of electrons for formation of NADPH. Cyclic photophosphorylation is performed by photosystem I only. Its photo-centre P_{700} extrudes an electron with a to create a proton gradient for synthesis of ATP from ADP and gain of 23 kcal/mole of energy after absorbing a photon of light (hv). After losing the electron the photo-centre becomes oxidized.

The expelled electron passes through a series of carriers including X or A_o (a special P_{700} chlorophyll molecule), A, (a quinone), FeS complexes (FeS_X, FeS_A, FeS_B), ferredoxin, (Fd), plastoquinone (PQ), cytochrome b – f complex and plastocyanin before returning to photo Centre. While over the cytochrome complex, the electron energises passage of protons inorganic phosphate.

Halo bacteria or halophile bacteria also perform photophosphorylation but ATP thus produced is not used in synthesis of food. These bacteria possess purple pigment bacteriorhodopsin attached to plasma membrane. As light falls on the pigment, it creates a proton pump which is used in ATP synthesis.

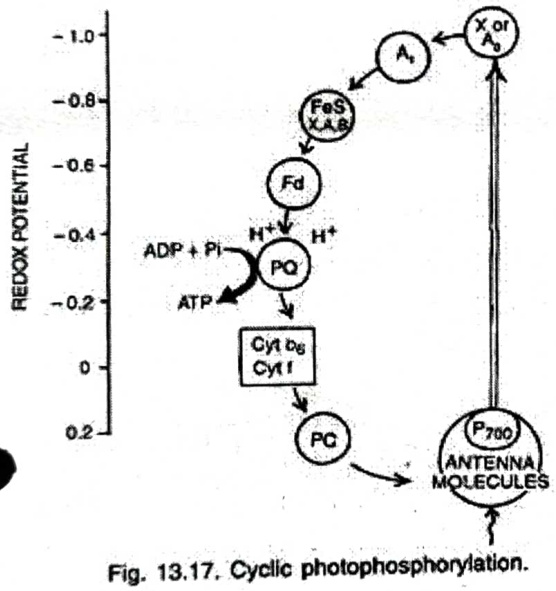

Fig. 13.17. Cyclic photophosphorylation.

Type # 2. Non-Cyclic Photophosphorylation:

It is the normal process of photophosphorylation in which the electron expelled by the excited photo-centre does not return to it. Non-cyclic photophosphorylation is carried out in collaboration of both photosystems I and II. Electron released during photolysis of water is picked up by photo-centre of PS II called P_{680}. The same is extruded out when the photo Centre absorbs light energy (hv).

The extruded electron has an energy equivalent to 23 kcal/mole. It passes through a series of electron carriers— phaeophytin, PQ, cytochrome b – f complex and plastocyanin. While passing over cytochrome complex, the electron loses sufficient energy for the synthesis of ATP. The electron is handed over to photo Centre P_{700} of PS I by plastocyanin. P_{700} extrudes the electron after absorbing light energy. The extruded electron passes through special chlorophyll X, Fe-S, ferredoxin, to finally reach $NADP^+$. The latter then

Continued

combines with $H^{\pm}$ (released during photolysis) with the help of NADP-reductase to form NADPH. This is called Z scheme due to its characteristic zig-zag shape based on redox potential of different electron carriers (Fig. 13.18).

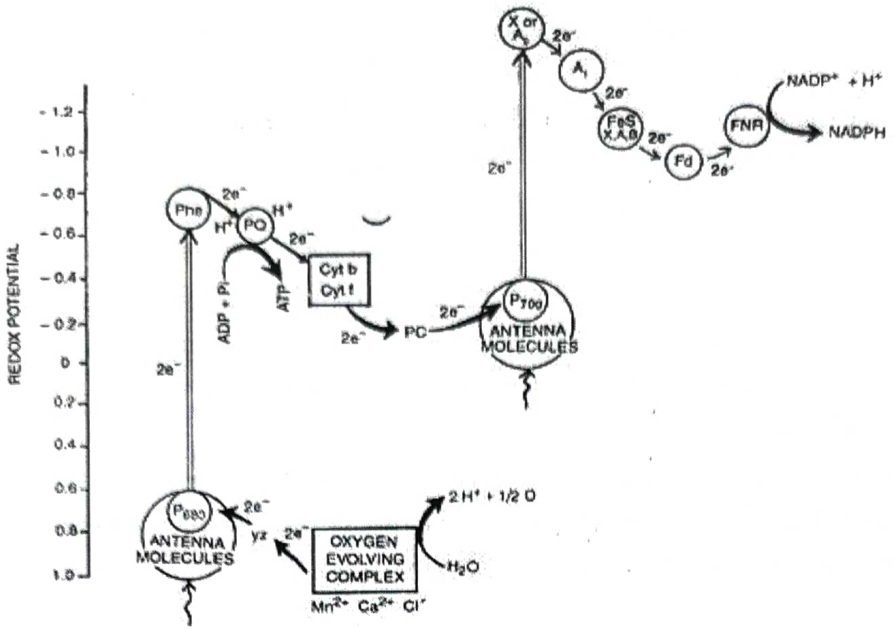

Fig. 13.18. Non-cyclic photophosphorylation and electron transport during photochemical phase.

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Wood Anatomy

Introduction: Those who work with wood should have a basic understanding of wood anatomy so they will be familiar with how different anatomical features influence wood properties and, in turn, how these properties react to different treatments and uses of the wood. This publication introduces the reader to wood characteristics that are common to both hardwoods and softwoods. Trees can be divided into two classes based on different anatomical characteristics, monocotyledoneae and dicotyledoneae. (For more information on the classification of trees, request a copy of FOR-61 from your local Extension office). There are no commercially important monocot trees in the United States, although some items made from such woods as bamboo, palm, and rattan, are often imported into this country.

Chemical Composition of Wood:

All wood is composed of cellulose, lignin, ash-forming minerals, and extractives formed into a cellular structure. The characteristics and amounts of these components and differences in cellular structures result in significant variations. Some woods are heavier, some lighter, some stiffer, some more flexible, some harder, some softer, and some easier to work with than others. It is these differences that make wood such a unique material. It is beyond this publication to do more than mention the different chemical compositions of wood. Because harsh chemicals are needed to separate some of these components from others, wood scientists do not know everything about the structures and functions of some of these chemicals.

Cellulose :Cellulose is the principal component of the cell walls of trees. It also makes up the cell walls of other plants, including all the higher plants, most algae, and some fungi. It is the most important component for its effect on the properties of wood. Hemicellulose, composed of shorter molecules than cellulose, makes up a large part of wood. It is also important for some properties of wood.

Lignin: Lignin can be thought of as the glue that holds the wood (cellulose and hemicellulose) together. Lignin is important because it gives rigidity to the cells so that a tree can grow large and tall.

Ash: The ash content of wood is made up of inorganic minerals, primarily calcium, potassium, and magnesium. Manganese and silica are two other common minerals. If silica is found in sufficient amounts (0.5% oven-dry1 weight), it can dull machining equipment. Extractives Common characteristics that we use to identify different woods with the naked eye come from extractives in the wood.

Sapwood: Sapwood, or new wood, provides a pipeline for the movement of water and nutrients through the trunk and into the leaves, where the process of photosynthesis occurs. In this process, oxygen is released into the air and carbon dioxide is taken up. Sunlight and chlorophyll, the chemical that causes leaves to have a green color, are two other important components for photosynthesis. During this process, sugars are made that the tree uses for food. The sap, made up of water and dissolved nutrients, carries the sugars from the leaves through the phloem to the cambium layer where the energy is used to produce new bark and wood. As new rings of sapwood are laid on top, the older sapwood loses its vitality and turns into heartwood. ed to most woods. In a number of woods, such as cherry, walnut, and mahogany, the extractive colors make these woods very valuable for furniture, wood paneling, and other products.

Heartwood : Heartwood forms the central support of the tree. Although it is made up of dead cells, it will never decay or lose strength as long as the sapwood and bark remain intact. Accumulation of extractives gives the heartwood of many species a darker color than that of the sapwood.

Annual Growth Rings : In temperate climates, where there is a growing season followed by a dormant season, the seasonal production of new wood produces the annual growth rings that are visible on the cross section of a tree stem. A year's formation of wood begins with larger cells in the spring and ends with smaller cells in the summer. The larger

Continued.

cells, called earlywood or springwood, form as the tree is more actively growing. The smaller cells, called latewood or summerwood, form as the tree is growing more slowly. Growth rings on the lower portion a tree trunk can be counted to estimate the age of a tree, but false rings can sometimes form because of drought, late frosts, or defoliation by insects or harsh weather. The trauma causes the tree to produce latewood cells. If conditions improve, the tree can produce another ring of earlywood and then latewood cells, thus producing two or more rings in a single year.

Wood Rays : Most transfers of water, nutrients, and chemicals occur up and down in a tree. However, there is some transfer across the tree. Sap moves down the tree through the phloem. The sap, containing water and nutrients, is transported horizontally to the cambium through structures called wood rays. Wood rays also act as storage areas for the carbohydrates that the tree uses as food. If you carefully examine a cross section of wood with a 10X hand lens, you can see the wood rays as narrow stripes or lines crossing the growth rings and extending from the bark to the pith or center of the tree. Wood rays of oaks and beech can easily be seen with the naked eye. Wood rays of other kinds of trees, including most softwoods, are hard to see even with a 10X hand lens.

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Department of Botany

REPORT

Ms Shwetha Pawar ,Ms Shruthi Kadam and Ms Sathyavedha Joseph ,faculty of Botany department conducted the tutorials for the BSc I,III and V semester students in the academic year 2019-20. The students attended the classes as per the prior set timetable.

These tutorials posed to enhance the additional knowledge to the existing curriculum study .they became more study oriented.

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NOTICE

Date :17/01/2020

It is here by informed that the Tutorial classes will be held to the BSc II, IV and VI semester students from 19/01/2020. The timetable will be displayed on the notice board . All the students must attend the classes .

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TIME-TABLE FOR TUTORIALS

2019-2020

TIME	SUNDAY		
11:30-12:30 PM	BSc II semester	BSc IV semester	BSc VI semester
1:00-2:00 PM	BSc II semester	BSc IV semester	BSc VI semester

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Fax: 08352 – 261766 E-mail: bldeasbkcp@gmail.com

Centenary Year 2010

DEPARTMENT OF BOTANY

ATTENDANCE LIST FOR TUTORIALS (2019-2020)

CLASS : BSC II SEMESTER

FACULTY NAME : Ms Shweta Parvati
Ms Shruti Kadam.

Sl.No.	Name of the Student	19/1/20	8/2/20	9/2/20	16/2/20	29/3/20	3/3/20	8/3/20
1	MADHU . YACHARAPPA . BADIGER	P	P	P	P	P	A	P
2	ROHINI . REVANASIDDAPPA . YELAMELI	A	P	P	P	A	P	A
3	VAIBHAV . RAVI . KANNUR	P	A	P	P	P	P	A
4	VAIBHAV . NARASHIMA . KULKARNI	P	P	A	P	P	A	P
5	NIVEDITA . GOVINDAPPA . SINGARADDI	P	P	P	A	A	P	P
6	SACHIN . VITTAL . MALLI	A	P	P	A	P	P	P
7	SUDHA . INAKARAO . CHAVAN	P	A	P	P	P	P	A
8	KARTEEK . PEERAPPA . METRI	P	A	P	P	P	A	P
9	SUSHMA . PRABHUGOUDA . DANNUR	P	P	A	P	A	P	P
10	POOJA . NAGARAJ . TUMBAGI	P	P	A	P	A	P	P
11	SARITA . RAMANNA . BELLUBHI	P	A	P	A	P	P	A
12	VAIBHAV . SUNILKUMAR . KALADAGI	A	P	P	A	P	P	A
13	SUMA . RAJASHEKHAR . KUBASAD	P	P	P	P	P	P	P
14	SPURTI . MAHADEV . KHEDAGI	P	P	A	P	A	P	P
15	SHWETA . VEERANNA . MUGIN	P	P	A	P	A	P	A
16	SHUBHAM . REVAPPA . HALLI	P	A	P	P	P	P	P
17	KHADAR PATEL . SYED PATEL . POLICE BIRADAR	P	A	P	P	P	P	A
18	PALLAVI . BASAVARAJ . BENUR	P	P	P	A	P	P	P
19	RASHMI . RAMANAGOUDA . EVOORA	P	A	P	P	P	P	A
20	SHRILAXMI . MALLIKARJUN . KATTIMANI	A	P	A	P	A	P	P
21	TEJASHWINI . SHIVANANDA . HITNALLI	P	P	P	P	P	A	P
22	RENUKA . KUPENDRA . TONNE	A	P	A	P	P	A	P
23	ISHWAR . VEERABHADRA . KOTENNAVAR	P	A	P	A	P	P	A
24	POOJA . HUCCHESH . VAGGA	P	A	P	A	P	P	A
25	ASHWINI . CHANDRAKANT . POOJARI	P	P	P	A	P	A	P
26	RAKSHITH . SHANKARAGOWDA . TUMBAGI	P	P	A	P	P	P	P
27	KARTHIK . CHANDRASHEKHAR . PATIL	P	P	A	P	A	P	A
28	AKASH . SANGANNA . JANIWAR	P	P	P	P	P	P	P
29	POOJA . PARAMESHWAR . MAGANGERI	P	A	P	A	P	A	P
30	AFRIN . NAZEERHUSEN . BILAGI	P	P	P	P	P	P	P
31	AAISHA . BANDENAVAJ . JAMADAR	A	P	A	P	A	P	A
32	ARVIND . SHRISHAIL . UTNAL	P	A	P	A	P	A	P

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33	SHRUTI . SIDDARAM . SHIRSHAYAD	P	P	A	P	P	A	P
34	ANAND . KENCHAPPA . GOKHLE URF KAMBLE	P	P	P	A	P	P	A
35	SUDHAKAR . RAMACHANDRA . BIRADAR	P	P	P	A	P	P	A
36	JYOTI . VITTAL . MALAGAR	A	P	P	P	A	P	P
37	AMBIKA . APPASAHEB . BIDARAKOTI	P	A	P	P	P	P	A
38	RAMANNA . SHARANAPPA . PUTANI	P	P	A	P	P	A	P
39	ANIL . BHIMANNA . PUJARI	P	P	A	P	P	A	P
40	SANGEETA . IRAGONDA . KHAVASPUR	A	P	P	A	P	A	P
41	SRUSHTY . KALLAPPA . SAVALI	P	A	P	P	A	P	A
42	ASHWINI . ASHOK . PUJARI	P	A	P	P	A	P	P
43	AISHWARYA . REVANSIDDA . PUJARI	P	A	P	P	A	P	A
44	ARATI . ANNASAHEB . PATIL	A	A	A	A	A	A	A
45	PRIYANKA . ISHWARAPPA . DALAWAI	P	P	A	P	P	A	P
46	VIJAYALAXMI . BHIMANNA . HEGADI	P	P	A	P	P	A	P
47	RAJESHWARI . BASAPPA . BHUYAR	P	P	P	P	P	P	A
48	AISHWARYA . APPASAHEB . MADAGI	A	P	A	A	A	A	A
49	SNEHA . JINNAPPA . SIRIGOUD	P	A	P	P	P	A	P
50	SHIVALINGAMMA . S . JAYAGOND	P	A	P	P	P	A	P
51	NIKITA . ANNARAY . SALUTAGI	A	P	A	P	P	A	P
52	AMIT . SIDDU . KAMAT	P	A	P	A	P	P	A
53	LAKKAPPA . BASAVARAJ . HUNACHYAL	P	A	P	P	A	P	P
54	PARVATI . BASAWARAJ . PATIL	P	A	P	A	P	P	P
55	MADHU . RAVI . PATIL	A	P	A	P	A	P	A
56	NIKITA . SURESH . NAIK	P	A	P	A	P	A	P
57	SUDHARANI . MURIGEPPA . SOUDI	P	A	P	A	P	A	P
58	RENUKA . ARJUN . SIDWADKAR	P	P	A	P	A	P	A
59	ASMITA . LAXMAN . GONDALI	A	P	A	P	A	P	P
60	AKSHATA . PARASHURAM . NAYAK	P	A	P	A	P	A	P
61	KAVYA . MALLIKARJUN . SHIVAKERI	P	A	P	A	P	A	P
62	PRAKASH . YAMANAPPA . ULLAGADDI	P	A	P	A	P	P	A
63	POOJA . DEEPAK . DASHAVANT	A	P	A	P	A	A	P
64	PRATIBHA . GURUNATH . KABADE	P	P	A	P	A	P	P
65	SARASWATI . NARAYAN . PUJARI	P	P	P	P	P	P	P
66	SUREKHA . TATYASAHEB . PATIL	P	A	P	A	P	P	A
67	BRAMARAMBIKADEVI . BASAVARAJ . PATIL	P	A	P	A	P	P	A
68	DEVIKA . DAYANAND . SINHASANMATH	A	P	A	P	A	P	P
69	LAKSHMI . ASHOK . KUMBAR	A	P	A	P	P	A	P
70	UDESH . SHREESHAIL . JANAWAD	P	A	P	P	P	A	P
71	SAGAR . BASAVARAJ . SEETHNOOR	P	A	P	A	P	A	P
72	RASHMI . MALLIKARJUN . BAGOJI	P	P	A	P	A	P	A
73	NIMBABAI . HANMANTH . GHORPADE	A	P	A	P	A	P	A
74	AKSHATA . BABU . NAYAK	P	P	A	P	A	P	P
75	VIJAYAKUMAR . BASAVARAJ . HUGAR	P	A	P	A	P	A	P
76	BHAGYA . RAJENDRA B B . BIRADAR	P	A	P	A	P	A	P
77	AKASH . ASHOK . CHALLAGI	A	P	A	P	A	P	A
78	SUNIL . SURESH . GURAV	P	P	A	P	A	P	P

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79	ABHISHEK . BASAVARAJ . MADIKESHWAR	P	A	A	A	A	P	P
80	SUPRIYA . SHIVANGOUDA . PATIL	A	P	A	P	A		P
81	MEGHA . ANAPPA . GAVANDI	P	A	P	P	A	P	P
82	JYOTI . BASANAGOUDA . ANGADAGERI	P	A	P	P	P	P	A
83	AMOGEPPA . KALYANI . GOUDAGAON	P	P	P	A	P	A	P
84	RAMESH . KASHINATH . NAVI	P	P	P	A	P	A	P
85	SUSHMITA . S . KODEKALMATH	A	P	A	P	A	P	P
86	AKASH . SHARANAPPA . ANGADI	P	P	A	P	A	P	A
87	SUSHMA . KANTAGOUDA . PATIL	P	P	P	A	P	A	P
88	GEETA . SOMANAGOUDA . MALIPATIL	A	A	A	P	A	P	
89	PREETI . SHIVANAND . NAGATHAN	P	P	A	P	A	P	P
90	PRIYANKA . ASHWITH . HADAPAD	P	P	A	P	A	P	P
91	BHAGYASHREE . SATIRAPPAGOUDA . BIRADAR	A	P	A	P	A	P	A
92	SHRAVYA . SURESH . SAVALASANG	P	A	P	P	P	P	P
93	MEENAKSHI . GOUDAPPA . PATIL	P	P	P	A	P	A	P
94	ABHILASH . SHIVANAND . MUJANNI	P	A	P	P	P	P	P
95	NITESHKUMAR . SANGAPPA . PUJARI	P	P	P	P	P	P	A
96	MANJU . BHIMANNA . NAGUR	A	P	A	P	A	P	P
97	MALLIKARJUN . SHARANGOUD . AVARADI	P	P	P	P	P	P	P
98	KAMALAKAR . SUBHAS . AWARADI	P	P	P	A	P	P	P
99	APOORVA . PARAGOUDA . BAGALI	P	A	P	P	P	A	P
100	ANUSHREE . SHRISHAIL . MASALI	P	P	P	P	P	P	P
101	APEKSHA . PRADEEP . SHIRASHYAD	A	P	A	P	P	P	A
102	SNEHA . CHANDRASHEEKAR . KUMBAR	A	P	P	P	A	P	P
103	VIJAKUMAR . GURAPPA . MURAGANUR	P	P	P	P	P	P	P
104	MUSKAN . MAIBOOBSAB . BAGWAN	P	A	P	A	P	A	P
105	PRASHANT . BASAPPA . JANAWAD	P	P	P	P	P	P	P
106	LAXMI . HANAMANTARAYA . AWATI	P	P	P	P	P	P	P
107	AKILA . BASAVARAJ . KARANI	A	P	A	P	A	P	A
108	SAVITA . SANNAPPA . MINAJAGI	P	P	P	P	P	P	P
109	SUHASINI . RAVINDRA . ARAKERI	P	A	P	P	P	P	P
110	VIDYASHREE . IRAPPA . AWATI	P	P	P	P	P	A	P
111	SHRIDEVI . BASANAGOUDA . PATIL	P	P	P	A	P	P	P
112	SUDHA . RAMESH . BEERANAGADDI	A	P	A	P	A	P	P
113	BASAVRASHMI . NANAGOUDA . BIRADAR	P	P	A	P	P	P	A
114	HARSHAVARDHAN . BASAVARAJ . KATTIMANI	A	P	P	P	P	P	P
115	RASHMI . GURUPAD . DASHYAL	P	P	P	A	P	A	P
116	ANJALI . SHANKRAPPA . BIRADAR	P	A	P	P	P	P	P
117	NAYANA . NAGARAJ . MASALI	P	P	P	A	P	P	P
118	SHARADA . KALYANAPPA . DIWANI	P	P	A	P	A	P	P
119	HARSHITHAKUMARI H K . HARISHKUMAR K . .	P	P	P	P	P	A	P
120	SHIVARAJ . HANAMANT . NATEKAR	P	P	A	P	P	P	P
121	SANGAMESH . LAXMAN . BIRADAR	A	P	P	A	P	A	P
122	SHREEPRASAD . PAVADEPPA . SAGAR	P	P	P	P	P	P	A
123	KALAVATI . NAGAPPA . BIRADAR	P	P	P	A	P	P	P
124	PRATIKSHA . PARASHURAM . INGALE	P	P	A	P	A	P	P
125	ANKITA . RAMANNA . CHAPPAR	A	P	P	P	P	P	P
126	SHREYA . SHARANAPPA . KOLUR	P	A	P	P	P	P	A

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127	SUSHMITHA . ASHOK . UPPALADINNI	A	A	A	A	P	A	P
128	VANISHREE . VITTAL . DASHAVANT	A	A	A	P	P	P	A
129	DATTAPPA . VITTHAPPA . HOSAMANI	A	A	P	A	P	A	P

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Centenary Year 2010

DEPARTMENT OF BOTANY

ATTENDANCE LIST FOR TUTORIALS (2019-20)

CLASS: B.SC IV SEMESTER **FACULTY NAME:** Ms. Shruti Kadam & Satyveda. J.

SL. NO	NAME OF THE STUDENT	19/1/20	2/2/20	9/2/20	16/2/20	29/3/20	1/3/20	8/3/20
1.	JAYASHREE BHOSAGI	P	A	P	P	P	P	A
2.	PURNIMA JAMBAGI	A	P	P	P	P	P	P
3.	CHAITRA ALOOR	P	P	A	P	P	P	P
4.	MAMATA SUIRUR	P	P	P	P	A	P	P
5.	MAHALAXMI MUCHCHANDI	P	P	P	A	P	A	P
6.	KOMAL LONARI	P	A	P	P	P	A	A
7.	ASHARANI MOLE	A	P	A	P	A	P	P
8.	BHAGYASHREE HATTALLI	P	P	A	P	A	P	P
9.	KALPANA HITNALLI	P	P	P	P	P	A	A
10.	BHUVANESHWARI M	P	A	P	A	P	P	P
11.	SOUMYA UMARANI	P	P	A	P	P	P	P
12.	SNEHA MUCHCHANDI	P	P	P	P	P	P	A
13.	POOJA PATIL	A	P	A	P	P	P	P
14.	SAHEBAGOUDA DUMMADRI	P	A	P	A	P	A	P
15.	MEGHA SANADHANI	P	P	A	P	A	P	P
16.	SHWETA SALADAHALLI	P	A	P	P	P	P	P
17.	ASMITA PANGUDWALE	P	P	A	P	P	P	P
18.	PRIYANKA PUJARI	A	P	P	A	P	A	P
19.	SHREYA ANAGAWADI	P	P	P	P	A	P	P
20.	SEEMA HIREMATH	P	A	P	P	P	A	P
21.	CHAITRA LAMANI	P	P	A	P	A	P	P
22.	BHAGYASHREE KOLAKAR	A	P	P	A	P	P	A
23.	RINKU PATEL	A	P	P	P	A	P	P
24.	VIDYA NAGARAL	P	A	P	A	P	P	P
25.	RANI TAVASE	P	P	A	P	P	A	P
26.	LAVANYA GODEKAR	P	P	A	P	A	P	A
27.	SMRITI NAIK	A	P	P	A	P	A	P
28.	AISHWARYA KABADE	P	A	P	P	A	P	A
29.	BASAMMA MADDARAKI	A	P	A	P	P	A	P
30.	DEVI BIRADAR	P	P	P	P	A	P	A
31.	ANKITA POOJARI	A	P	A	P	P	A	P
32.	AMARAMMA BIRADAR	P	A	P	A	P	P	A
33.	KAVERI TILLIHAL	A	P	P	A	A	A	P
34.	NAJMA KUDALAGI	P	P	A	P	A	P	P
35.	RENUKA GORAGORI	P	P	P	P	P	P	P
36.	VIDYARAANI LAALASANGI	A	P	P	A	P	A	P
37.	DUNDAPPA BIRADAR	P	P	A	P	A	P	P
38.	GIRISH MANUR	P	P	P	A	P	A	A
39.	GURURAJ HALLADI	A	A	A	P	A	A	P
40.	BHUVANESHWARI C	P	P	A	P	A	P	A
41.	PRAGATI NANDUR	P	P	P	P	P	A	P

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42.	POOJA NAIK	P	P	P	P	A	P	P
43.	PAVITRA DALAWAI	A	P	P	P	P	P	A
44.	VIJAYALAXMI JADHAV	P	P	A	P	P	A	P
45.	LAXMI TAKKALAKI	P	A	P	A	P	P	A
46.	CHAITRA HERAKAL	P	P	P	P	A	P	P
47.	SUDHARANI SANADI	P	A	P	A	P	A	P
48.	SUNITA HIROLLI	A	P	A	P	A	P	A
49.	KAJAL HALAKUDE	P	P	P	A	P	A	P
50.	SHIVANI KOKATNUR	P	P	P	P	P	P	A
51.	MUTTAPPA JAMAKHANDI	A	P	P	P	P	P	A
52.	SHUBHAM KAMBLE	P	A	P	P	P	A	P
53.	KAVERI THAKKANNAVAR	P	P	A	P	A	P	P
54.	VEENA SANGALAD	A	P	P	A	P	P	P
55.	SUDHARANI KALLOLLI	P	P	A	P	P	P	
56.	ANNARAYA PATIL	P	A	P	P	P	A	P
57.	PAVITRA .	P	A	P	A	P	P	A
58.	PREMA YARANAL	P	P	A	P	A	P	P
59.	AKSHATA BHUSHETTI	A	P	P	P	P	P	P
60.	KAVERI PAWAR	P	P	P	P	P	P	P
61.	RAJASHREE BOGAR	A	P	P	A	P	P	A
62.	AKSHATA LIMAKAR	P	P	P	P	A	P	P
63.	ASHWINI .RATHOD	A	P	A	P	P		P
64.	BHAGYASHREE KARENNI	P	P	P	P	P	P	P
65.	KIRAN TARAPUR	A	A	P	P	P	P	P
66.	SANGANNA KARANDE	P	P	P	P	P	P	P
67.	NANDABASAPPA PUJARI	A	P	P	P	P	P	A
68.	SHRAVANAKUMAR M	P	P	P	P	P	P	A
69.	ANELKUMAR MARTUR	P	A	P	A	P	A	P
70.	AKASH RATHOD	P	P	P	P	P	P	P
71.	ANIL PADATARE	P	A	P	P	A	P	P
72.	PARVATI BIRADAR	A	P	A	P	P	P	A
73.	SHAILA PATTAR	P	A	P	P	A	P	P
74.	ASHWINI CHOUDRI	A	P	A	P	P	A	A
75.	RESHMA PAWAR	P	P	P	P	P	P	P
76.	PRIYANKA CHAVAN	A	P	A	P	P	A	P
77.	SIDDHAMMA HIROLI	P	P	P	P	P	P	P
78.	TEJASWINI BISWAL	P	A	P	A	A	P	A
79.	SAMARTH ATHARGA	A	P	P	P	P	A	P
80.	ABHISHEK SHEKADAR	P	P	A	P	A	P	P
81.	PRAJWAL IJERI	A	P	P	P	P	P	A
82.	JYOTI RATHOD	P	A	P	A	P	P	P
83.	PREETI KUMARI .	P	P	P	P	A	A	P
84.	BHAVANAKNVAR RAJPUT	P	A	P	A	P	P	A
85.	NISHA RATHOD	A	P	P	P	A	P	P
86.	POOJA MUNJANNI	P	P	A	P	P	A	P
87.	AVINASH PATIL	P	P	P	A	P	P	A
88.	SIDDRAMAYYA SATTIGERI	A	P	A	P	P	P	P
89.	MARUTI RATHOD	P	A	P	P	P	A	P
90.	NITIN JADHAV	P	P	P	P	A	P	A
91.	SIDDARTH PATIL	A	P	A	P	P	P	P
92.	VISHAL MAYUR	P	P	P	P	P	A	P
93.	BASAVARAJ PUJARI	P	A	P	A	P	P	A
94.	AKASHA CHAVAN	A	P	P	P	A	P	P

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95.	VIJAYALAXI HUNASAGI	P	P	P	A	P	P	A
96.	AMRUTA BILUR	A	P	P	P	A	P	P
97.	TEJASWINI .	P	P	A	P	P	A	P
98.	RESHMA TARSE	P	A	P	P	P	P	P
99.	BHARGAVI NAVI	P	P	P	P	A	P	P
100.	JYOTI TERADAL	A	P	A	P	P	P	A
101.	SUNANDA BIRADAR	P	A	P	P	P	A	P
102.	SHRISHAIL DHAVALAGI	P	P	A	A	A	P	A
103.	SHREELAXMI KAMASHETTY	A	A	P	P	P	P	P
104.	SHIVANAND PUJARI	P	P	A	P	A	A	P
105.	AKASH PURANI	A	A	P	P	P	P	A
106.	AKASH HADIMANI	P	P	P	P	P	A	P
107.	AVINASH BIRADAR	A	A	P	A	P	P	P
108.	SACHIN BIRADAR	P	P	A	P	A	A	A
109.	MALLIKARJUN BUDIHAL	P	A	P	P	P	P	P
110.	GANESH REDDI	A	P	P	P	P	P	P
111.	AMIT KORI	P	A	P	A	P	P	A
112.	AMIT JADHAV	P	P	A	P	A	P	P
113.	MALLANAGOWDA PATILA		A	P		P	A	P
114.	SUSHMITA BIRADAR	P	P	A	P	A	P	P
115.	ARCHANA NANDARAGI	P	A	P	A	P	P	A
116.	RUDRAMMA GHOOLI	A	P	P	P	A	P	P
117.	LAXMIBAI PATIL	P	A	P	P	P	A	P
118.	POOJA BAGALAKOT	P	P	A	P	A	P	A
119.	BINDU BAJANTRI	A	P	P	A	P	A	P
120.	PRIYANKA SAVANT	P	A	P	P	A	P	A
121.	NIVEDITA BOMMANAHALLI	P	P	A	P	P	P	P
122.	LAXMI MUTAGOND	P	P	P	A	P	P	P
123.	AKHILA PATIL	A	P	P	P	P	P	A
124.	BHAVANI BAGEWADI	P	A	P	P	A	P	P
125.	SHRINIVAS KOULAGI	P	P	A	A	P	A	P
126.	ABHISHEK PUJARI	P	P	P	P	P	P	P
127.	SHASHIKUMAR HARANAL	P	P	P	P	P	P	P
128.	RAHUL BIDARKOTI	A	P	A	P	A	P	A
129.	ASHOK AJANAL	P	A	P	A	P	A	P
130.	AMOGHASIDDA M	P	P	P	P	P	P	P
131.	KAVYA DESHPANDE	P	A	P	A	P	P	P
132.	AKSHATA SANADI	A	P	A	P	A	P	P
133.	SWATI MUTTAGI	P	A	P	A	P	A	P
134.	SHANKARALING A	A	P	A	P	A	P	A
135.	PREETI TELI	P	A	P	A	P	A	P
136.	VIJAYKUMAR PUJARI	P	P	P	P	P	P	P
137.	NIKITA KANASE	A	P	A	P	A	P	A

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Centenary Year 2010

DEPARTMENT OF BOTANY

ATTENDANCE LIST FOR TUTORIALS (2019-20)

CLASS: B.SC V SEMESTER **FACULTY NAME:** Shweta Pawar & Satyveda. J.

SL. NO	NAME OF THE STUDENT	19/1/20	2/2/20	9/2/20	16/2/20	29/3/20	1/3/20	8/3/20
1.	POOJASHRI METRI	P	P	A	P	P	A	P
2.	YADAVI KODATE	A	P	P	A	P	P	A
3.	ASHWINI RATHOD	P	P	P	P	P	A	P
4.	ASHWINI . HAJERI	P	A	P	A	P	P	A
5.	KRISHNAVATI ..KUNDARAGI	A	P	A	P	A	P	P
6.	SUSHMITA. TAKKALAKI	P	P	P	A	P	A	P
7.	SHRADDHA. GAYAKWAD	A	P	P	P	A	P	A
8.	SHRIDEVI . BABU . TORAVI	P	A	P	A	P	A	P
9.	SHOBHA . NIMBARGI	P	P	A	P	P	P	A
10.	POOJA . HATAGANI	A	P	P	P	P	A	P
11.	SAMPREETA . HIREMATH	P	A	P	A	P	P	A
12.	SOUMYA . . PATIL	A	P	P	P	A	P	P
13.	DEEPA. BAGEWADI	P	P	A	P	P	A	P
14.	POOJA WAGAMORE	P	A	P	A	P	P	P
15.	PAVAN . PUJARI	P	P	P	P	A	P	P
16.	ASHRAF . MAHIBOOB . LONI	A	P	P	A	P	A	A
17.	YALLALINGA . DHULKHED	P	A	P	P	A	P	P
18.	SOMANATH . . DONAGI	P	P	A	P	P	A	P
19.	SHREESHAIL .. METRI	A	A	P	A	P	P	A
20.	RANJANA . TAKKALAKI	P	P	A	P	A	P	P
21.	KAVERI . MARAGUR	P	P	P	A	P	A	A
22.	BHUVANESHWARI.K	A	P	A	P	A	P	P
23.	ASHA. KASHETTI	P	A	P	A	P	A	A
24.	ANNAPOORNA .WADDAR	A	P	A	P	A	P	P
25.	RADHA . N . REDDY	P	P	P	A	P	P	A
26.	SAHANA . BILGI	P	A	P	P	A	P	P
27.	KAVYA .YELADAGI	A	P	A	P	P	A	P
28.	KOMAL . GARAD	P	P	P	A	P	P	A
29.	GURUDEVI . . BADADAL	P	A	P	P	P	A	P
30.	AISHWARYA . . YARANAL	A	P	A	P	A	P	A
31.	DEEPA .. MAMADAPUR	P	P	P	A	P	A	P
32.	PRATIKSHA. NAYKODI	P	A	P	P	A	P	P
33.	SUDHA . TALAWAR	A	P	A	P	P	P	A
34.	LAKSHMI. HACHAREDDY	P	P	P	A	P	A	P
35.	PRATHIBHA . GUNNAPUR	P	A	A	P	A	P	A
36.	PRATIKSHA . PATTAR	A	P	P	A	P	A	P
37.	BHARATI . MULAWAD	P	P	P	P	A	P	A
38.	NIVEDITA . . JOGUR	P	A	P	P	P	P	P
39.	POORNIMA .. HALLIHEAD	A	P	P	A	P	A	P
40.	DANAMMA. HANDIGANUR	P	P	A	P		P	P
41.	SNEHA .. RATAKADHAND	P	A	P	P	P	A	P

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42.	SHANTAPPA .GUNDAGI	P	P	P	P	P	A	P
43.	NAVEEN . . HOSAMANI	A	P	P	A	P	P	A
44.	DASTGIR. NADAF	P	A	P	P	A	P	P
45.	PRASHANT. KAMBALE	P	P	A	P	P	A	P
46.	JATTEPPA. SHIRAKANALLI	A	P	P	A	P	P	A
47.	SIDDU . VITTHAL . GADDI	P	A	P	P	A	A	P
48.	SACHIN . SAJJAN	P	P	A	P	P	P	P
49.	PRIYANK. MAMADAPUR	P	A	P	A	P	A	A
50.	SUDHA . HIREMATH	A	P	A	P	A	P	A
51.	AISHWARYA . IRASUR	P	A	P	A	P	A	P
52.	AKASH . HIREMATH	P	P	A	P	A	P	A
53.	ASHA . . SHANAVALE	A	P	P	A	P	A	P
54.	SHEETAL . JATTI	P	A	P	P	P	P	A
55.	RAJESHWARI .. HONAWAD	P	P	A	P	A	P	P
56.	SAVITA . RATHOD	A	A	P	A	P	A	P
57.	SHANKARAYYA. HIREMATH	P	P	A	P	A	P	P
58.	SHARANU .. MURAGOD	A	P	P	A	P	P	A
59.	MALLIKARJUN MATHAPATI	P	A	P	P	P	A	P
60.	SUSHMA .. HERALAGI	P	P	A	P	P	P	P
61.	PREMA . SUBHAS . ALLOLLI	A	P	P	A	P	A	P
62.	SUSHMA .. BIRADAR	P	A	P	P	A	P	A
63.	SRISHTI . BIRADAR	A	P	A	P	P	A	P
64.	POOJA .. KANAMADI	P	A	P	A	P	P	A
65.	PREMA .. HARIJAN	P	P	A	P	A	P	P
66.	REVATI . SURESH . BAGALI	A	P	P	A	P	A	P
67.	AYISHA .. MUJAWAR	P	A	P	P	A	P	A
68.	SNEHA . RAMESH . HORTI	P	P	A	P	P	A	P
69.	SNEHA . YADRAMI	P	P	P	A	P	P	A
70.	VITTAL .. DUDAGI	P	A	P	P	A	P	A
71.	NEHAA .. CHOUGULE	P	P	A	P	P	A	P
72.	SHAMBHAVI. BHUSHETTI	A	P	A	P	P	P	A
73.	TEJASHWINI.B	P	P	P	A	P	A	P
74.	APOORVA. HIROLLI	P	A	P	P	A	P	A
75.	AISHWARYA. KAVITAL	P	P	A	P	P	P	A
76.	PRIYA. PATIL	P	P	P	A	P	P	P
77.	RASHMI . PRANESH . JOSHI	P	A	P	P	A	P	P
78.	ASHWINI . . UPPAR	P	P	P	P	P	P	P
79.	POOJA .. HIRAGOND	P	P	P	P	P	P	P
80.	ANITA . SHRISHAIL . DESAI	A	P	P	P	A	P	P
81.	ASHWINI .. PATIL	P	A	P	P	P	A	P
82.	SOUMYASHREE . . KOLARI	P	P	A	P	P	P	P
83.	SHWETA . GIDAVEER	P	A	P	P	A	P	P
84.	ARCHANA . RATHOD	A	P	A	P	P	A	A
85.	PREETI . ASHOK . GADYAL	P	P	P	A	P	P	P
86.	LAXMI . BADIGER	A	P	P	P	A	P	A
87.	AKSHAYKUMAR. TOLUNUR	P	A	P	A	P	A	A
88.	BASAVARAJ .. PATIL	P	P	P	P	P	P	P
89.	BASAVARAJ .. GOBBI	A	P	A	P	A	P	A
90.	TIPPANAGOUDA .. HALLI	P	A	P	A	P	A	P
91.	APPAJI . VILAS . KAMBLE	P	P	P	P	P	P	A
92.	PINTU . TUKARAM . RATHOD	A	P	A	P	P	A	P
93.	KAMALABAI . . DIVASAGI	P	A	P	A	P	A	A
94.	PARVATI .. DALAVAYI	A	P	A	P	A	A	P

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95.	SHREYA . MADABHAVI	P	A	P	A	P	A	P
96.	AISHWARYA. GAIKWAD	A	P	P	P	A	P	P
97.	SHRUTI . NANDASHETTI	P	A	P	P	P	P	A
98.	MEGHA .. PATTAR	A	P	P	A	P	A	P
99.	MAHALAKSHMI . S . .	P	P	A	P	P	P	P
100.	SWAPNA . . BANDARGATI	P	A	P	P	A	P	A
101.	VAISHNAVI. NILAGAR	P	P	P	P	P	A	P
102.	ASHWINI . . INGALAGERI	A	P	P	A	P	P	A
103.	ROJA .. PATIL	P	A	P	P	A	P	P
104.	ANUSHA .. MAHISHI	P	P	A	P	P	A	P
105.	SHRIDHAR .. KUDARI	A	P	P	A	P	P	A
106.	MALLIKARJUN .. MALLAD	P	A	P	P	A	P	P
107.	BHIMANNA .. SHAKHAPUR	P	P	A	P	P	A	P
108.	SHIVANAND . . BIRADAR	A	P	P	A	P	P	A
109.	RAMESH . SOMU . RATHOD	P	P	P	P	P	P	P
110.	HEMANT . RAYABAGI	P	P	P	P	P	P	P
111.	VISHWANATH . BIRADAR	A	A	P	A	A	A	A
112.	SOMANATH . SUNAGAR	P	P	A	P	P	P	P
113.	ABHILASH . C	A	P	P	A	P	A	P
114.	SACHIN . METRI	P	A	P	P	A	P	A
115.	MADAGOND . . BIRADAR	P	P	A	P	P	A	P
116.	GURURAJA . DYAMAN	P	A	P	A	P	P	A
117.	NINGARAJ . MAHAMANI	A	P	A	P	A	P	P
118.	HANAMANTARAYAGOUD . B	P	P	P	A	P	A	P
119.	JYOTI . SHREESHAIL . NAD	P	A	P	P	A	P	A
120.	RAGHUVEER . K	P	P	A	P	P	P	P
121.	NAGESH .. NINGADALLI	P	P	P	P	P	P	P
122.	VIKRAM . . RATHOD	A	P	P	P	P	P	A
123.	SACHIN .. ROOPANOOR	P	A	P	A	P	A	P
124.	ABDULAJEEJ . NADAF	A	P	A	P	A	P	A
125.	AKASH . YALLAPPA . KATTI	P	A	P	A	P	A	P
126.	DATTAPPA . . MARAGOND	A	P	P	P	P	P	A
127.	ARAVIND H . V . .	P	P	P	P	P	P	P
128.	AJAY . D . KADAGOL	A	P	P	P	P	P	A
129.	ASHWINI . SAJJAN	P	A	P	A	P	A	P
130.	SHUBHANGINI .. NIKKAM	A	P	P	P	A	P	P
131.	ASHPAK . BHAGWAN	P	P	A	P	P	P	A
132.	AKSHATA .. PATED	A	A	P	A	P	A	P
133.	GOURAMMA .. TALAGERI	P	P	A	P	A	P	A
134.	CHANDRIKA . SAJJAN	A	A	P	P	P	A	P
135.	ANNAPOORNA . TALAVAR	P	P	P	A	P	P	P
136.	POOJA . SINAKHED	P	P	P	P	P	P	P

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Double fertilization

Is a complex fertilization mechanism of flowering plants (angiosperms). This process involves the joining of a female gametophyte (megagametophyte, also called the embryo sac) with two male gametes (sperm). It begins when a pollen grain adheres to the stigma of the carpel, the female reproductive structure of a flower. The pollen grain then takes in moisture and begins to germinate, forming a pollen tube that extends down toward the ovary through style. The tip of the pollen tube then enters the ovary and penetrates through the micropyle opening in the ovule. The pollen tube proceeds to release the two sperm in the megagametophyte.

The cells of an unfertilized ovule are 8 in number and arranged in the form of 3+2+3 (from top to bottom) i.e. 3 antipodal cells, 2 polar central cells, 2 synergids & 1 egg cell. One sperm fertilizes the egg cell and the other sperm combines with the two **polar nuclei** of the large **central cell** of the megagametophyte. The haploid sperm and haploid egg combine to form a diploid zygote, the process being called syngamy, while the other sperm and the two haploid polar nuclei of the large central cell of the megagametophyte form a triploid nucleus (**triple fusion**).

Some plants may form polyploid nuclei. The large cell of the gametophyte will then develop into the endosperm, a nutrient-rich tissue which provides nourishment to the developing embryo. The ovary, surrounding the ovules, develops into the fruit, which protects the seeds and may function to disperse them.

The two central cell maternal nuclei (polar nuclei) that contribute to the endosperm, arise by mitosis from the same single meiotic product that gave rise to the egg. The maternal contribution to the genetic constitution of the triploid endosperm is double that of the embryo.

Megagametophyte

The female gametophyte, the megagametophyte, that participates in double fertilization in angiosperms which is haploid is called the embryo sac. This develops within an ovule, enclosed by the ovary at the base of a carpel. Surrounding the megagametophyte are (one or) two integuments, which form an opening called the micropyle. The megagametophyte, which is usually haploid, originates from the (usually diploid) megaspore mother cell, also called the megasporocyte. The next sequence of events varies, depending on the particular species, but in most species, the following events occur. The megasporocyte undergoes a meiotic cell division, producing four haploid megaspores. Only one of the four resulting megaspores survives. This megaspore undergoes three rounds of mitotic division, resulting in seven cells with eight haploid nuclei (the central cell has two nuclei, called the polar nuclei). The lower end of the embryo sac consists of the haploid egg cell positioned in the middle of two other haploid cells, called synergids. The synergids function in the attraction and guidance of the pollen tube to the megagametophyte through the micropyle. At the upper end of the megagametophyte are three antipodal cells.

Microgametophyte

The male gametophytes, or microgametophytes, that participate in double fertilization are contained within pollen grains. They develop within the microsporangia, or pollen sacs, of the anthers on the stamens. Each microsporangium contains diploid microspore mother cells, or microsporocytes. Each microsporocyte undergoes meiosis, forming four haploid microspores, each of which can eventually develop into a pollen grain. A microspore undergoes mitosis and cytokinesis in order to produce two separate cells, the generative cell and the tube cell. These two cells in addition to the spore wall make up an immature pollen grain. As the male gametophyte matures, the generative cell passes into the tube cell, and the generative cell undergoes

continued

mitosis, producing two sperm cells. Once the pollen grain has matured, the anthers break open, releasing the pollen. The pollen is carried to the pistil of another flower, by wind or animal pollinators, and deposited on the stigma. As the pollen grain germinates, the tube cell produces the pollen tube, which elongates and extends down the long style of the carpel and into the ovary, where its sperm cells are released in the megagametophyte. Double fertilization proceeds from here.

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Teak

Teak, (genus *Tectona grandis*), large deciduous tree of the family Verbenaceae, or its wood, one of the most valuable timbers. Teak has been widely used in India for more than 2,000 years. The name *teak* is from the Malayalam word *tēkka*.

The tree has a straight but often buttressed stem (i.e., thickened at the base), a spreading crown, and four-sided branchlets with large quadrangular pith. The leaves are opposite or sometimes whorled in young specimens, about 0.5 metre (1.5 feet) long and 23 cm (9 inches) wide. In shape they resemble those of the tobacco plant, but their substance is hard and the surface rough. The branches terminate in many small white flowers in large, erect, cross-branched panicles. The fruit is a drupe (fleshy, with a stony seed) 1.7 cm (two-thirds of an inch) in diameter. The bark of the stem is about 1.3 cm (half an inch) thick, gray or brownish gray, the sapwood white; the unseasoned heartwood has a pleasant and strong aromatic fragrance and a beautiful golden yellow colour, which on seasoning darkens into brown, mottled with darker streaks. The timber retains its aromatic fragrance to a great age.

Native to India, Myanmar (Burma), and Thailand, the tree grows as far north as about the 25th parallel in most of this area but to the 32nd parallel in the Punjab. The tree is not found near the coast; the most valuable forests are on low hills up to about 900 metres (3,000 feet). Stands are also found in the Philippines and in Java and elsewhere in the Malay Archipelago. Teak is also planted in Africa, Central America, and South America.

During the dry season the tree is leafless; in hot localities the leaves fall in January, but in moist places the tree remains green until March. At the end of the dry season, when the first monsoon rains fall, the new foliage emerges. Although the tree flowers freely, few seeds are produced because many of the flowers are sterile. The forest fires of the dry season, which in India usually occur in March and April after the seeds have ripened and

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have partly fallen, impede the spread of the tree by self-sown seed. In Burmese plantations, teak trees on good soil have attained an average height of 18 metres (59 feet) in 15 years, with a girth, breast high, of 0.5 metre (1.5 feet). In the natural forests of Myanmar and India, teak timber with a girth of about 2 metres (6.5 feet) and a diameter of 0.6 metre (2 feet) is never less than 100 and often more than 200 years old. Mature trees are usually not more than 46 metres (150 feet) high.

Teak timber is valued in warm countries principally for its extraordinary durability. In India and Myanmar, beams of the wood in good preservation are often found in buildings many centuries old, and teak beams have lasted in palaces and temples more than 1,000 years. The timber is practically imperishable unde Teakwood is used for shipbuilding, fine furniture, door and window frames, wharves, bridges, cooling-tower louvres, flooring, paneling, railway cars, and venetian blinds. An important property of teak is its extremely good dimensional stability. It is strong, of medium weight, and of average hardness. Termites eat the sapwood but rarely attack the heartwood; it is not, however, completely resistant to marine borers.Myanmar produces most of the world's supply, with Indonesia, India, and Thailand ranking next in production. Since the mid-1980s, numerous countries have restricted teak logging to control deforestation.

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REPORT

Ms Shwetha Pawar ,Ms Shruthi Kadam and Ms Sathyavedha Joseph ,faculty of department of UG Botany conducted the tutorials for the BSc II ,IV and VI semester students in the academic year 2019-20. The students attended the classes as per the prior set timetable .

These tutorials posed to enhance the additional knowledge to the existing curriculum study .they became more study oriented.

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