

B.L.D.E Association's

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

DEPARTMENT OF BOTANY

“TUTORIALS”

2017-2018

B.L.D.E Association's

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

Department of BOTANY

NOTICE

Date :21/07/2017

It is here by informed that the Tutorial classes will be held to the BSc I,III and V semester students from 23/07/2017. 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

2017-2018

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



DEPARTMENT OF BOTANY
ATTENDANCE LIST FOR TUTORIALS (2017-2018)

CLASS : BSC I SEMESTER

FACULTY NAME : prof. L.L. Malghan
Ms. Rohini Pol.

Sl.No.	Name of the Student	23/7/17	13/8/17	20/8/17	27/8/17	3/9/17	10/9/17	24/9/17
1	PRATHIBHA . GURULINGAPPA . GUNNAPUR	P	P	P	A	A	P	P
2	SWATI . RAJASHEKHER . LENDI	P	A	A	A	P	A	A
3	PRATIKSHA . VASANT . NAYKODI	A	P	P	P	A	P	P
4	KAVYA . RAVINDRA . YELADAGI	P	P	A	A	P	P	P
5	DEEPA . VITHAL . BAGEWADI	P	P	P	P	P	A	A
6	SHRADDHA . ANIL . GAYAKWAD	P	A	P	A	P	P	A
7	POOJASHRI . GANAPATI . METRI	A	P	P	P	P	A	P
8	SOMANATH . REVANASIDDA . DONAGI	A	P	A	A	P	P	P
9	NIVEDITA . CHANDRASHEKAR . JOGUR	P	P	P	P	A	P	A
10	AKSHATA . DYAVAPPA . PUJARI	P	A	A	A	P	A	P
11	MALLIKARJUN . KALLAYYA . MATHAPATI	A	P	A	P	P	P	A
12	YADAVI . SATAPPA . KODATE	P	P	P	P	A	P	P
13	POORNIMA . SOMASHEKHAR . HALLI	A	P	P	P	A	P	A
14	ARCHANA . SHREESHAIL . BANNE	P	P	A	A	P	A	A
15	LAKSHMI . SHIVAREDDY . HACHAREDDY	P	P	P	P	P	A	P
16	RAGHUVEER . SURESH . KARABHANTNAL	P	A	A	P	A	P	A
17	PREETI . ASHOK . GADYAL	A	P	P	P	P	P	P
18	NINGARAJ . SHREESHAIL . MAHAMANI	P	A	A	P	A	A	P
19	SHREESHAIL . KASHINATH . METRI	P	P	P	A	A	P	A
20	PRATIKSHA . VILAS . PATTAR	P	P	P	P	P	A	P
21	SOUMYA . SHREEPATIRAO . PATIL	A	P	P	P	P	P	A
22	PRITI . GANAPATI . RATHOD	P	A	P	A	P	P	A
23	SIDDU . VITTHAL . GADDI	P	P	A	P	A	P	P
24	VISHWANATH . SIDDARAM . BIRADAR	A	P	P	A	P	A	A
25	ASHRAF . MAHIBOOB . LONI	P	P	P	P	A	P	P
26	KAVERI . ARAVINDA . MARAGUR	A	P	A	P	P	A	A
27	DANAMMA . MAHADEV . HANDIGANUR	P	A	P	A	A	P	P
28	BHARATI . SHIVANAND . MULAWAD	A	P	P	A	P	A	P
29	DASTGIR . NOUSHAD . NADAF	P	P	A	P	P	P	A
30	SHIVALEELA . SHANKARGOUDA . BIRADAR	P	P	P	P	P	A	P
31	SUSHMITA . ASHOK . TAKKALAKI	P	P	P	P	A	P	A
32	PRIYANK . SIDDAPPA . MAMADAPUR	A	A	A	A	P	A	A

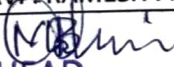
HEAD

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Vijayapur.

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

33	KRISHNAVATI . HANAMANT . KUNDARAGI	P	P	P	P	P	A	P
34	SHRIDEVI . BABU . TORAVI	P	P	P	P	A	P	P
35	PRASHANT . SOMANING . KAMBALE	P	P	P	P	A	P	P
36	ASHWINI . RAMAPPA . RATHOD	A	A	P	P	P	A	A
37	RAMESH . SOMU . RATHOD	P	P	P	P	P	A	P
38	SNEHA . SANJAY . KATAKADHAND	P	P	P	P	A	P	P
39	ANNAPOORNA . TIPPANNA . TALAVAR	P	A	A	A	A	A	A
40	SHIVANAND . JAGADEVAPPA . BIRADAR	A	P	P	P	P	P	P
41	AMRUTA . SHREEDHAR . GUDDAPUR	P	P	A	A	A	A	A
42	ASHWINI . SANGAPPA . HAJERI	P	P	P	A	P	P	P
43	SHANTAPPA . REVANASIDDAPPA . GUNDAGI	P	A	A	P	P	A	A
44	HANAMANTARAYAGOUD . G . BIRADAR	A	P	P	P	A	P	P
45	HEMANT . PARASHURAM . RAYABAGI	P	P	A	P	P	A	A
46	RATANRAJ . SIDDAGONDA . PATIL	P	P	P	A	P	P	P
47	SHOBHA . RAMESH . NIMBARGI	P	A	A	P	P	A	A
48	NETRA . YAMANAPPA . ILAGER	A	P	P	P	A	P	P
49	VIDYASHREE . RAMAPPA . HONAWAD	P	P	P	P	P	P	P
50	JYOTI . SHREESHAIL . NAD	A	P	A	P	P	A	A
51	HEENAFARAVIN . KAISAR PASHA . JAHAGIRDAR	P	A	P	P	P	A	P
52	GURURAJA . NARASANAGOUDA . DYAMAN	A	P	P	P	P	A	P
53	ASHA . ASHOK . KASHETTI	A	P	P	P	P	A	A
54	PAVAN . KENCHAPPA . PUJARI	P	A	A	A	P	P	A
55	GIRISH . VITTHAL . BIRADAR	A	P	P	P	P	P	A
56	NAVEEN . DEVENDRAPPA . HOSAMANI	A	P	P	P	P	P	P
57	SRISHTI . BASAVARAJ . BIRADAR	P	P	P	P	A	P	A
58	POOJA . BHIMARAY . KANAMADI	P	P	P	P	P	P	P
59	POOJA . RAMESH . BANSODE	P	P	P	P	P	P	P
60	RASHMI . PRANESH . JOSHI	A	A	A	P	P	P	P
61	SUDHA . GURUMURTHI . HIREMATH	P	A	P	P	P	P	A
62	SUSHMA . MALLIKARJUN . HERALAGI	P	A	P	A	P	P	P
63	JATTEPPA . GOLLALAPPA . SHIRAKANALLI	A	P	P	P	P	P	A
64	AKASH . NAGAYYA . HIREMATH	A	P	P	P	P	P	P
65	KAMALABAI . SANGAPPA . DIVATAGI	P	A	P	P	P	P	P
66	SNEHA . RAMESH . HORTI	P	P	P	P	P	P	A
67	PREMA . SUBHAS . ALLOLTI	P	A	P	A	P	P	A
68	ANKITA . ANIL . ALAKUNTE	A	P	P	P	P	P	A
69	SACHIN . MAHADEVA . METRI	P	P	P	P	P	P	P
70	AYISHA . RAJESAB . MUJAWAR	P	A	P	P	P	P	A
71	MADAGOND . SHIVANAND . BIRADAR	P	P	P	P	P	P	P
72	SAMPREETA . IRAYYA . HIREMATH	P	P	P	P	P	P	A
73	PARVATI . NANDIKESH . BANNAD	P	P	P	P	P	P	P
74	MAHALAKSHMI . SIDRAMESHWAPA . .	A	A	A	P	P	P	P
75	SHRIMANT . BEERAPPA . GUGADADDI	P	P	P	P	P	P	P
76	SUSHMA . ANNAPPAGOUDA . BIRADAR	P	P	P	P	A	P	P
77	SOUMYASHREE . VISHWANATH . KOLARI	P	P	P	P	A	P	P
78	VAISHNAVI . RAMESH . NILAGAR	A	A	A	A	A	A	P


HEAD

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VIJAYAPUR.

79	ABHILASH . SANGAYYA . CHARANTIMATH	P	P	P	P	P	P	P
80	ANNAPOORNA . MALAKAPPA . WADDAR	P	A	A	P	P	P	P
81	SOMANATH . DATTATREYA . SUNAGAR	P	P	P	A	A	A	A
82	PREMA . PAVADEPPA . HARIJAN	A	A	P	P	P	A	P
83	RANJANA . SHRISHAIL . TAKKALAKI	P	A	P	P	P	P	A
84	VITTAL . HANAMANT . DUDAGI	P	P	A	A	A	A	A
85	REVATI . SURESH . BAGALI	P	A	P	P	P	P	P
86	BHUVANESHWARI . VISHWANATH . KALBURGI	A	A	A	A	A	A	A
87	KOMAL . SHANTARAM . GARAD	P	P	P	P	P	P	A
88	PARVATI . VITTHAL . DALAVAYI	P	P	P	P	A	P	P
89	ASHWINI . APPANAGOUDA . PATIL	A	P	P	A	P	A	A
90	SHWETA . BASAVARAJ . GIDAVEER	P	A	P	P	P	P	A
91	SAHANA . SIDDARAMESHWAR . BILGI	P	A	A	P	P	A	A
92	ASHWINI . SANGANAGOUDA . INGALAGERI	P	P	P	P	P	P	A
93	LAXMI . PRAKASH . BADIGER	A	A	A	A	A	A	A
94	SACHIN . BASAVARAJ . SAJJAN	P	P	P	P	P	P	P
95	POOJA . DHAREPPA . SINAKHED	P	P	P	P	P	P	P
96	SHEETAL . SHIVANAND . JATTI	A	P	P	P	P	P	P
97	DEEPA . SANGANAGOUDA . MAMADAPUR	P	P	P	P	P	P	P
98	RAGHU . REVANASIDDA . LALASANGI	A	A	A	A	A	A	A
99	SUDHA . SHRINIVAS . TALAWAR	P	P	A	P	P	A	P
100	AISHWARYA . ASHOK . KAVITAL	P	A	P	P	P	P	P
101	ANITA . SHRISHAIL . DESAI	P	P	A	P	A	A	A
102	BASAVARAJ . KASANAGOUD . PATIL	A	A	A	P	A	P	P
103	RADHA . MALLIKARJUN . REDDY	P	P	P	P	A	A	P
104	GURUDEVI . BABURAY . BADADAL	P	P	P	A	P	P	P
105	AISHWARYA . MALLIKARJUN . YARANAL	P	P	A	A	P	P	P
106	ASHA . BARAIMAM . SHANAVALA	P	P	P	A	P	P	P
107	TIPPANAGOUDA . CHANDRASHEKHAR . HALLI	A	P	A	P	P	A	A
108	BASAVARAJ . PRAKASH . GOBBI	P	A	A	P	A	P	P
109	POOJA . SHIVANAND . HIRAGOND	P	P	P	P	A	A	P
110	PINTU . TUKARAM . RATHOD	A	P	P	P	P	P	P
111	AKSHATA . MALLAYYA . PATED	P	A	P	A	A	A	A
112	GOURAMMA . AMOGEPPI . TALAGERI	P	P	P	P	P	P	P
113	SAVITA . HABAPPA . RATHOD	A	A	P	P	A	A	A
114	ARCHANA . SHRIMANT . RATHOD	A	P	P	A	P	P	P
115	AKSHAYKUMAR . SIDARAY . TOLONUR	P	A	P	P	A	A	A
116	PRIYA . JAKKANAGOUDA . PATIL	A	P	A	A	P	P	P
117	ABDULAJEEJ . ALLISAB . NADAF	A	P	P	P	A	A	A
118	APPAJI . VILAS . KAMBLE	P	P	P	P	P	P	P
119	SAHEBAGOUDA . RAMANAGOUDA . EVOOR	P	P	A	P	A	P	P
120	SHARANU . MALLIKARJUN . MURAGOD	P	P	P	A	P	P	P
121	RAJESHWARI . BASAVARAJ . HONAWAD	P	P	A	P	P	A	A
122	TEJASHWINI . RAMESH . BASAVAPRABHU	P	A	P	P	P	P	P
123	MEGHA . MALLIKARJUN . PATTAR	P	P	A	P	P	A	P
124	ANUSHA . BADARISH . MAHISHI	A	P	P	P	A	P	A
125	SHANKARAYYA . SHRISHAIL . HIREMATH	P	A	A	P	P	P	P
126	ROJA . BHIMASHANKAR . PATIL	A	A	P	P	P	P	A

M. B. H. H. HEAD

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Principal,

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VIJAYAPUR.

127	NAGENDRAPPA . SANJEEV . PATIL	P	P	P	P	P	P	P
128	SNEHA . SAMPATKUMAR . YADRAMI	P	P	P	P	P	P	P
128	ASHWINI . RAVIKUMAR . SAJJAN	P	P	P	P	P	P	P
129	NAGESH . SIDDHALING . NINGADALLI	A	P	P	A	P	P	A
130	KAVYASHREE . PARAMANANDA . TELI	P	P	P	P	P	A	P
131	MALLIKARJUN . SADASHIV . MALLAD	P	P	P	P	P	P	P
132	SHUBHANGINI . APPASAHEB . NIKKAM	P	P	A	P	P	A	A
133	SHILPA . SANGARADDI . NAGARADDI	A	P	P	P	P	P	P
134	ASHPAK . SAIPUNASAB . BHAGWAN	P	P	P	P	P	P	P
135	PRATIK . HUCHCHAPPA . WAGHMORE	P	P	P	P	P	P	A
136	PRASANKUMAR . BASAVARAJ . BIRADAR	P	P	P	P	A	P	P
137	BHIMANNA . PARASHURAM . SHAKHAPUR	P	P	P	P	P	P	P
138	SACHIN . YALLAPPA . ROOPANOR	P	P	P	P	P	A	P
139	DATTAPPA . MALAPPA . MARAGOND	P	P	A	P	P	P	P
140	POOJA . SIDRAMAPPA . HATAGANI	A	P	P	P	P	P	P
141	PRIYANKA . KALU . BELLUNDAGI	P	P	P	P	P	P	A
142	SWAPNA . SIDDANNA . BANDARGATI	P	A	P	P	P	P	P
143	AKASH . YALLAPPA . KATTI	P	P	P	P	A	P	A
144	SHRIDHAR . DYMANNA . KUDARI	P	P	P	P	P	P	P
145	NEHAA . GURUBASU . CHOUGULE	P	P	P	P	P	A	P
146	SHAMBHAVI . UMESH . BHUSHETTI	P	P	P	P	P	P	P
147	ARAVIND H . VENKATRAMULU . .	P	A	P	P	P	P	A
148	APOORVA . ANNARAY . HIROLLI	P	P	P	P	P	P	P
149	ASHWINI . KALLAPPA . UPPAR	P	P	A	A	P	P	A
150	SHRUTI . APPASAHEB . NANDASHETTI	P	P	P	P	P	A	P
151	AKSHATA . SHIVAKUMAR . BIRADAR	P	P	P	P	P	P	A
152	RAJESHWARI . RAMANAGOUDA . BIRADAR	P	P	P	P	A	P	P
153	SAHANA . SIDDALINGAPPA . DUBALAGUNDI	P	P	P	P	P	P	P
154	IRANNA . BASALINGAPPA . KATTIMANI	P	A	P	A	P	P	A
155	AISHWARYA . SHIVANAND . GAIKWAD	A	P	A	P	P	P	P
156	AJAY . SHIVANAND . KADAGOL	A	P	P	P	A	P	P
157	POOJA . BAHUSAB . WAGAMORE	P	P	P	P	P	P	P
158	CHANDRIKA . ASHOK . SAJJAN	P	P	P	P	P	P	P
159	VIKRAM . AMARESH . RATHOD	P	P	P	P	P	P	P
160	CHETAN . CHANNABASAPPA . BIRADAR	P	P	P	P	A	P	A
161	NAGENDRAPPA . SANJEEV . PATIL	P	P	P	P	P	P	P


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Centenary Year 2010



DEPARTMENT OF BOTANY
ATTENDANCE LIST FOR TUTORIALS (2017-18)

CLASS: B.SC III SEMESTER

FACULTY NAME: Ms. Polinipal & G.M. Nesur.

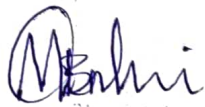
SL. NO	NAME OF THE STUDENT	23/7/17	13/8/17	20/8/17	27/8/17	3/9/17	10/9/17	24/9/17
1.	SHRUTI. GONDHALI	P	P	P	A	P	P	P
2.	AAMIR SOHAIL . MULLA	A	P	P	P	P	P	A
3.	ABHISHEK . CHOUDHARI	P	P	P	P	A	P	P
4.	ADITYA . SALUNKE	P	A	P	P	P	A	P
5.	AKSHATA . PATTANAD	P	P	A	P	P	P	P
6.	AKSHATA . SUGUR	A	P	P	A	P	P	A
7.	AKSHAY . BADIGER	P	P	P	P	P	A	P
8.	AMBADAS . HAMELPURE	P	A	P	P	A	P	P
9.	AMRUTA . GIDAVEER	P	P	A	P	P	P	A
10.	ANITA . CHOUDRI	P	P	P	P	A	P	P
11.	ANJANADEVI . KABBIN	A	P	A	P	P	P	A
12.	ANJANEYA . KALAL	P	A	P		P	A	P
13.	ARCHANA . MISAL	P	P	P	P	P	P	P
14.	ARCHANA . PATIL	P	P	A	P	A	P	P
15.	ARJUN . MOHITE	P		P	A	P	A	A
16.	ARUNKUMAR . BANIKOL	P	P	P	P	A	P	P
17.	ARUNKUMAR . HANDIGANUR	A	P	P	P	P	P	A
18.	ARUNKUMAR . MAMADAPUR	P	A	P	P	P	P	P
19.	ASHARANI . MATHAPATI	P	P	P	A	P	P	A
20.	ASHWINI . KSHATRI	P	P	P	P	A	P	P
21.	BHAGYASHRE . BIRADAR	P	P	P	P	P	A	P
22.	SHRISHAIL . BIRADAR	A	P	A	P	P	P	A
23.	CHAITRA . NEELAGAR	P	A	P	A	P	P	P
24.	CHAITRA . MAYUR	P	P	P	P	A	P	P
25.	CHANDRAKANT . RATHOD	P	P	P	P	P	P	P
26.	CHARANTAYYA . HIREMATH	A	P	P	P	P	A	P
27.	ANIL . CHAVAN	P	P	A	P	P	P	A
28.	DANAMMA . BHUSARI	A	A	P	A	P	P	P
29.	DEEPTI . MASUTI	P	P	A	P	P	P	P
30.	DEVENDRA . BIRADAR	A	P	P	P	A	P	P
31.	DIVYA . BHAIRASHETTI	P	P	P	P	P	P	P
32.	GAJANAN . CHAKUNDI	P	P	A	P	P	A	P
33.	GANESH . KUDAGI	P	P	P	A	P	P	P
34.	GAYATRI . KODEKAL	P	P	P	P	P	P	A
35.	GEETA . BIRADAR	P	A	P	P	P	P	P
36.	GIRESH . CHOUDHARI	A	P	P	P	P	P	P
37.	HEMAVATI . KHANDEKAR	P	P	P	P	P	P	P
38.	RAVI . JINJARWAD	P	P	P	P	P	P	P
39.	KANYAKUMARI . HUTAGI	P	P	P	A	P	A	P
40.	KARTIK . JADHAV	P		P	P	P	P	P
41.	KAVERI . CHOUDHARI	A	P	P	P	A	P	P

continued --

42.	KAVITA . ENAGI	P	P	P	P	P	A	P
43.	KEERTI . MUDDEBIHAL	P	A	P	P	P	P	A
44.	KHATUNABI . MULLA	A	P	P	P	P	A	P
45.	LAKSHMAN . CHATTARAKI	P	P	A	P	A	P	P
46.	LAXMI . BADIGER	A	P	P	A	P	A	P
47.	MADIWALAPPA . BADIGER	P	A	P	P	P	P	A
48.	MAHANTESH . KARIKABBI	A	P	A	A	A	P	P
49.	MAHESH . PARASANAHALLI	P	P	P	P	P	A	A
50.	MALAKARADDI . CHOUDRI	P	A	P	P	P	P	P
51.	MALASHREE . CHAVHAN	P	P	P	P	P	P	A
52.	MALAVIKA . BIDARI	A	P	A	P	P	P	P
53.	MALLAMMA . BIRADAR	P	P	P	P	P	P	P
54.	MALLANAGOUD . PATIL	P	P	P	P	P	P	P
55.	MALLAPPA . PATIL	P	A	P	A	P	P	A
56.	MANOJ . DUDAGI	P	P	P	P	P	A	P
57.	MARUTI . BARAKADE	P	P	P	P	A	P	P
58.	MEGHA . KUBSAD	A	P	P	P	P	P	P
59.	AVINASH . PARULEKAR	P	A	P	A	P	P	A
60.	PAVANAKUMAR . POLICEPATIL	A	P	A	P	P	P	P
61.	SUNIL . PAWAR	P	P	P	P	P	P	P
62.	POOJA . ANGADI	P	A	P	P	P	P	A
63.	POOJA . NAGARI	A	P	P	A	P	P	P
64.	POOJA . DESAI	P	P	P	P	P	P	P
65.	POOJA . PYATIGOUDAR	A	P	P	P	P	P	A
66.	PRACHI . PATIL	P	P	P	P	P	P	P
67.	PRANESH . KANNOLLI	P	P	P	A	P	P	A
68.	PRATIMA . HANJI	P	P	P	P	P	A	P
69.	PREETI . PAWAR	P	P	P	P	P	P	A
70.	PRIYA . KATAKE	A	P	P	A	P	A	P
71.	PRIYA . GABASAVALGI	P	A	P	P		P	A
72.	PRIYA . TOLE	P	P	A	P	P	A	P
73.	PRIYA . PATIL	A	P	P	P	A	P	P
74.	PRIYANKA . CHAVAR	P	P	P	P	P	P	P
75.	PRIYANKA . MANAGULI	P	A	P	P	P	A	P
76.	RAHEESA . USTAD	P	P	P	P	P	P	P
77.	RAHUL . NAIK	P	P	P	A	P	A	P
78.	RAHUL . BAGALI	P	P	A	P	A	P	P
79.	RAHUL . PATIL	P	A	P	P	P	P	A
80.	RENUKA . KOTARAGASTI	A	P	P	P	P	P	P
81.	SAGAR . JANGAMASHETTI	P	P	P	P	P	P	P
82.	SANDEEP . KUDIGANOOOR	P	P	P	A	P	A	P
83.	SANDEEP . RATHOD	P	P	P	P	P	P	A
84.	SANGAMESH . MUDHOL	A	P	P	P	A	P	P
85.	SANTOSH . NAYKODI	P	A	P	P	P	P	P
86.	SANTHOSH . MELINMANI	P	P	A	P	P	P	P
87.	SHANTALA . MADARKHANDI	A	P	P	A	P	P	A
88.	SHARANAGOUD . POLICEPATIL	P	P	P	P	A	P	P
89.	SHASHIKANT . RATHOD	P	A	P	P	P	A	P
90.	SHASHIKUMAR . BUDANUR	P	A	P	P	P	P	P
91.	SHILPA . DALWAI	P	P	A	P	P	P	A
92.	SHIVANAGOUD . BIRADAR	A	P	P	A	P	P	P
93.	SHIVANI . NAYAKODI	P	P	P	P	A	P	P
94.	SHIVARAJ . BAIRAMADI	P	A	P	P	P	P	A

continued...

95.	SHREYA . SHETTY	P	P	A	P	P	A	P
96.	SHWETA . KAMGOND	A	P	P	P	P	A	P
97.	SHWETA . BIJAPUR	P	P	P	P	P	P	P
98.	SHWETA . KENGANAL	P	P	P	A	P	P	A
99.	SHWETA . RAJAPUT	P	P	P	P	P	P	P
100.	SHWETA . RUGI	A	P	A	P	A	P	A
101.	SNEHA . BISNAL	P	P	P	P	P	P	P
102.	SOMANATH . BAGALAKOT	P	P	A	P	P	A	P
103.	SOUMYA . BOGAR	P	P	P	A	P	P	P
104.	SOUMYA . SHEELWANTMATH	A	P	P	P	P	P	P
105.	SUJATA . CHAVAN	P	P	P	P	A	P	P
106.	SUMA . CHAVAN	P	A	P	P	P	P	A
107.	SUNIL . PAWAR	P	P	A	P	P	P	P
108.	SUPRIYA . KERUTAGI	A	P	P	P	P	A	P
109.	SUPRIYA . NIKKAM	P	P	P	A	P	P	P
110.	SUSHMITA . BILUR	P	A	P	P	P	P	A
111.	SUSHMITA . BILUR	A	P	P	P	A	P	P
112.	SWATI . GANACHARI	P	P	A	P	P	P	P
113.	TEJASHWINI . MANTRI	P	A		P	P	A	A
114.	TEJASWINI . CHAVAN	A	P	P	A	P	P	P
115.	UMESH . HOSAMANI		P	A	P	P	P	P
116.	UTTAM . KAMBLE	P	A	P	P	A	P	A
117.	VARSHA . TOPI	A	P	P	A	P	A	P
118.	VEENAKUMARI . BIRADAR		A	A	P	P	P	P
119.	VEERESH . KULAGERI	P	P	P	P	A	P	P
120.	VIDYA . HIREMATH	A	P	A	P	P	P	A
121.	VIDYASHREE . GOTYAL	P	P	P	A	P	A	P
122.	VIJAYALAXMI . NAGARALLI	A	P	P	P	P	P	P
123.	VIJAYALAXMI . PATIL	P	A	P	P	A	P	A
124.	VIKAS . JADHAV	P	P	A	A	P	P	P
125.	VIRESH . TOTAD	A	P	P	P	P	A	P
125.	AKSHAY . SUTAGUNDI	P	A	P	P	P	P	A



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**DEPARTMENT OF BOTANY
ATTENDANCE LIST FOR TUTORIALS (2017-18)**

CLASS: B.SC V SEMESTER

FACULTY NAME: G.M. Nesur & L.L. Malghan

SL. NO	NAME OF THE STUDENT	23/7/17	31/8/17	20/8/17	27/8/17	3/9/17	10/9/17	24/9/17
1.	AISHWARYA . SAJJAN	P	P	P	P	P	P	A
2.	AISHWARYA . SHETTY	A	P	P	P	P	P	P
3.	AKSHAY . BANNE	P	A	P	A	P	P	P
4.	APOORVA . BHUI	P	P	A	P	P	A	P
5.	ARATI . KOTTALAGI	P	P	P	P	A	P	A
6.	ARATI . DUDAGI	P	P	P	P	P	P	P
7.	BASAVARAJ . MALLANNA	P	A	P	A	P	A	P
8.	BASAYYA . HIREMATH	A	P	A	P	A	P	A
9.	BHUVANÉSHWARI . BIRADAR	P	P	P	P	P	P	P
10.	BHUVANESHWARI . KOTIN	P	A	P	P	P	A	P
11.	BIBIZAHERA . BEVANUR	A	P	P	A	P	P	A
12.	CHANABASAYYA . HIREMATH	P	P	A	P	A	P	P
13.	SUSHMITA . CHOUDARI	P	P	P	P	P	A	P
14.	PRIYANK . CHOUDRI	P	A	P	P	P	P	P
15.	DEEPA . KAMBLE	P	P	P	A	P	P	A
16.	DRAKSHAYANI . BIRADAR	A	P	A	P	A	P	P
17.	HANAMANT . DHUMALE	P	P	P	P	P		P
18.	HARSHA . BELAGALI	P	A	P	P	P	P	P
19.	IRANNA . BIRADAR	A	P	P	P	A	P	A
20.	PRIYAL . KASAR	P	P		P	P	P	P
21.	KASHINATHA . BAGALI	P	P	P	A	P		P
22.	KAVYA . RATHOD	P	A	P	P	P	P	P
23.	LAXMEEKANT . HUNACHYAL	A	P	A	P	A	P	A
24.	LAXMINI . MODI	P	P	P	A	P	A	P
25.	LAXMI . JUNJARAWAD	A	P	P	P	A	P	A
26.	LEELA . HARIJAN	P	P	P	P	P	P	P
27.	REKHA . MALI	P	A	P	P	P	P	A
28.	MANJUNATH . JARALE	P	P	A	P	A	P	P
29.	MEGHA . WARAD		P	P	A	P	A	P
30.	PARIS . NEMGOUD	P	P	P	P	P	P	P
31.	POOJA . KHAMITKAR	P	P	P	P	P	P	P
32.	POOJA . SAJJAN	P	A	P	P	P	P	A
33.	POOJA . TALAKERI	A	P	A	P	A	P	P
34.	POORNIMA . KESSTI	P	P	P	P	P	P	P
35.	PREKSHA . KASAR	P	P	P	A	P	A	P
36.	PRIYANKA . POOJARI	P	A	P	P	P	P	P
37.	PRIYANKA . RATNAKAR	P	P	P	P	A	P	P
38.	RAFAQ . SOUDAGAR	P	P	A	P	P	A	P
39.	RAHUL . RATHOD	P	P	P	P	P	P	P
40.	RAJKUMAR . BHAIKASHETTI	A	P	P	A	A	P	A
41.	RAMYA . BADIGER	P	P	P	P	P	A	P

Continued.

42.	RANJEETA . DALAWAI	P	P	P	P	P	P	P
43.	RAVI . GADED	P	P	P	P	P	P	P
44.	BIYA . SHETTY	P	P	P	P	P	P	A
45.	ROHAN . BELLUNDAGI	P	P	A	P	A	P	P
46.	ROHINI . VASTRAD	P	A	P	A	P	P	P
47.	SAIPAN . KHATIK	A	P	P	P	P	A	P
48.	SANDYA . RATHOD	P	P	P	P	P	P	A
49.	SANGEETA . CHAVAN	P	P	P	A	P	A	P
50.	SANTOSH . RATHOD	P	A	P	P	A	P	P
51.	SAVITRI . MUDALAGI	A	P	P	P	P	P	P
52.	SHREEDHAR . PARASHETTI	P	P	P	P	P	P	A
53.	SHRUTI . MASALI	P	P	A	P	P	P	P
54.	SHRUTI . NAKKARAGUNDI	P	A	P	A	P	P	P
55.	SIDDHARAM . KOTTALAGI	A	P	P	P	A	P	A
56.	SIDRAMAYYA . STAVARAMATH	P	P	P	P	P	A	P
57.	SOUMYA . YATADVAI	P	P	A	P	P	P	P
58.	SUNIL . CHAVAN	P	A	P	A	P	A	P
59.	SUNITA . PATIL	A	P	P	P	A	P	A
60.	SUSHMITA . A.T . D . L . GI	P	P	P	P	P	P	P
61.	SWATI . DALAWAI	P	P	A	P	P	P	P
62.	GANGA . THOBBI	P	A	P	P	P	A	P
63.	VIJEETA . THORAVI	A	P	P	A	P	P	A
64.	VINITA . KAMBALE	P	P	P	P	P	P	P
65.	VISHAL . BIRADAR	P	P	P	P	P	P	A
66.	TANUJA . VAGOLGI	P	P	A	P	A	P	P

52. SHREEDHAR . PARASHETTI

53. SHRUTI . MASALI

56. SIDRAMAYYA . STAVARAMATH

57. SOUMYA . YATADVAI

58. SUNIL . CHAVAN

59. SUNITA . PATIL

60. SUSHMITA . A.T . D . L . GI

61. SWATI . DALAWAI

62. GANGA . THOBBI

63. VIJEETA . THORAVI

64. VINITA . KAMBALE

65. VISHAL . BIRADAR

66. TANUJA . VAGOLGI

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Chromosomal aberrations

The chromosome set of a species remains relatively stable over long periods of time. However, within populations there can be found abnormalities involving the structure or number of chromosomes. These alterations arise spontaneously from errors in the normal processes of the cell. Their consequences are usually deleterious, giving rise to individuals who are unhealthy or sterile, though in rare cases alterations provide Changes in chromosome structure

Two important principles dictate the properties of a large proportion of structural chromosomal changes. The first principle is that any deviation from the normal ratio of genetic material in the genome results in genetic imbalance and abnormal function. In the normal nuclei of both diploid and haploid cells, the ratio of the individual chromosomes to one another is 1:1. Any deviation from this ratio by addition or subtraction of either whole chromosomes or parts of chromosomes results in genomic imbalance. The second principle is that homologous chromosomes go to great lengths to pair at meiosis. The tightly paired homologous regions are joined by a ladderlike longitudinal structure called the synaptonemal complex. Homologous regions seem to be able to find each other and form a synaptonemal complex whether or not they are part of normal chromosomes. Therefore, when structural changes occur, not only are the resulting pairing formations highly characteristic of that type of structural change but they also dictate the packaging of normal and abnormal chromosomes into the gametes and subsequently into the progeny.

Deletions

The simplest, but perhaps most damaging, structural change is a deletion—the complete loss of a part of one chromosome. In a haploid cell this is lethal, because part of the essential genome is lost. However, even in diploid cells deletions are generally lethal or have other serious consequences. In a diploid a heterozygous deletion results in a cell that has one normal chromosome set and another set that contains a truncated chromosome. Such cells show genomic imbalance, which increases in severity with the size of the deletion. Another potential source of damage is that any recessive, deleterious, or lethal alleles that are in the normal counterpart of the deleted region will be expressed in the phenotype. In humans, cri-du-chat syndrome is caused by a heterozygous deletion at the tip of the short arm of chromosome 5. Infants are born with this condition as the result of a deletion arising in parental germinal tissues or even in sex cells. The manifestations of this deletion, in addition to the “cat cry” that gives the syndrome its name, include severe intellectual disability and an abnormally small head.

new adaptive opportunities that allow evolutionary change to occur. In fact, the discovery of visible chromosomal differences between species has given rise to the belief that radical restructuring of chromosome architecture has been an important force in evolution.


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Blackman's Law and Photosynthesis

Sachs in 1860 for the first time propounded the concept of the three cardinal points. According to this concept, there is a minimum, optimum and maximum for each factor in relation to photosynthesis.

This way, with any given species there may be a minimum temperature below which no photosynthesis takes place, an optimum temperature at which the highest rate takes place and a maximum temperature beyond which no photosynthesis will take place.

In the twentieth century Blackman (1905) proposed his principle of limiting factors. According to this principle the rate of photosynthesis controlled by several factors is only as rapid as the slowest factor permits.

He claimed that, if all other factors are kept constant the factor under consideration will affect the rate of photosynthesis, starting at a minimum below which no photosynthesis takes place and ending with an optimum at which a horizontal would be established, that is, the rate would remain constant despite further increases in that factor. At this point some other factor becomes limiting.

In the twentieth century Blackman (1905) proposed his principle of limiting factors. According to this principle the rate of photosynthesis controlled by several factors is only as rapid as the slowest factor permits.

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The explanation of Blackman's principle can best be presented in terms of the illustration given by Blackman himself. It is to be assumed that light intensity supplied to a leaf is just sufficient to utilize 5 mg of carbon dioxide per hour in photosynthesis. As the carbon dioxide supply is increased the rate of photosynthesis is also increased until 5 mg of carbon dioxide enters the leaf per hour.

Any further increase in the supply of carbon dioxide will have no influence upon the rate of photosynthesis. Light has now become the limiting factor and further increase in the rate of photosynthesis can be brought about only by an increase in the intensity of light.

These results are indicated graphically. Here the effects of three different light intensities have been shown on the rate of photosynthesis under increasing concentrations of carbon dioxide.

Under low light intensity, the rate of photosynthesis increasing concentrations of carbon dioxide. Concentration is raised until B is reached where further increase in carbon dioxide concentration is not accompanied by any increase in the rate of photosynthesis.

The rate of photosynthesis becomes constant along the line BC. Any further increase in the supply of carbon dioxide will have no effect single upon the rate of photosynthesis, because light intensity has now become the limiting factor. If light intensity is now further increased, the rate of photosynthesis also increases until light again becomes a limiting factor.

Here light becomes the limiting factor at the point C and there is another sharp break in the rate of photosynthesis along the line CF. Further increase in light intensity causes an increase in the rate of photosynthesis along the line CD with a Proportional increase in carbon dioxide concentration.

The rate of photosynthesis becomes constant along the line DE where light again becomes limiting factor. At the points B, C and D the increase in the rate of photosynthesis stops abruptly because one or the other factors becomes limiting.

Light and carbon dioxide are not the only factors which can be limiting in the process of photosynthesis; other factors of photosynthesis can also become limiting under certain conditions.

It becomes clear from the above discussion that when photosynthesis is under the influence of several factors simultaneously, an increase in that factor and the limiting factor will bring about an increase in the rate of photosynthesis.


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

Department of Botany

REPORT

Prof.,L..L.. malghan ,Ms Rohini Pol and G.M. Nesur, faculty of Botany department conducted the tutorials for the BSc I, III and V semester students in the academic year 2017-18. The student attended the classes as per the prior set timetable.

These tutorials posed to enhance the additional knowledge to the existing curricular study. They became more study oriented. The students here studied about post harvesting technology and biological measures to control pathogens.


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NOTICE

Date :19/01/2018

It is here by informed that the Tutorial classes will be held to the BSc II,IV and VI semester students from 21/01/2018. The timetable will be displayed on the notice board . All the students must attend the classes .



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TIME-TABLE FOR TUTORIALS

2017-2018

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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**DEPARTMENT OF BOTANY
ATTENDANCE LIST FOR TUTORIALS (2017-2018)**

CLASS : BSC II SEMESTER

FACULTY NAME : Prof. L.L. Malghan
MS Rowini P O I

Sl.No.	Name of the Student	21/1/18	4/2/18	11/2/18	18/2/18	25/2/18	4/3/18	11/3/18
1	PRATHIBHA . GURULINGAPPA . GUNNAPUR	P	P	P	P	P	P	P
2	SWATI . RAJASHEKHER . LENDI	P	P	P	P	P	P	P
3	PRATIKSHA . VASANT . NAYKODI	P	P	P	P	P	P	P
4	KAVYA . RAVINDRA . YELADAGI	P	P	P	P	P	P	P
5	DEEPA . VITHAL . BAGEWADI	P	P	P	P	P	P	P
6	SHRADDHA . ANIL . GAYAKWAD	P	P	P	P	P	P	P
7	POOJASHRI . GANAPATI . METRI	P	P	P	P	P	P	P
8	SOMANATH . REVANASIDDA . DONAGI	P	P	P	P	P	P	P
9	NIVEDITA . CHANDRASHEKAR . JOGUR	P	P	P	P	P	P	P
10	AKSHATA . DYAVAPPA . PUJARI	P	P	P	P	P	P	P
11	MALLIKARJUN . KALLAYYA . MATHAPATI	P	P	P	P	P	P	P
12	YADAVI . SATAPPA . KODATE	P	P	P	P	P	P	P
13	POORNIMA . SOMASHEKHAR . HALLI	P	P	P	P	P	P	P
14	ARCHANA . SHREESHAIL . BANNE	P	P	P	P	P	P	P
15	LAKSHMI . SHIVAREDDY . HACHAREDDY	P	P	P	P	P	P	P
16	RAGHUVEER . SURESH . KARABHANTNAL	P	P	P	P	P	P	P
17	PREETI . ASHOK . GADYAL	P	P	P	P	P	P	P
18	NINGARAJ . SHREESHAIL . MAHAMANI	P	P	P	P	P	P	P
19	SHREESHAIL . KASHINATH . METRI	P	P	P	P	P	P	P
20	PRATIKSHA . VILAS . PATTAR	P	P	P	P	P	P	P
21	SOUMYA . SHREEPATIRAO . PATIL	P	P	P	P	P	P	P
22	PRITI . GANAPATI . RATHOD	P	P	P	P	P	P	P
23	SIDDU . VITTHAL . GADDI	P	P	P	P	P	P	P
24	VISHWANATH . SIDDARAM . BIRADAR	P	P	P	P	P	P	P
25	ASHRAF . MAHIBOOB . LONI	P	P	P	P	P	P	P
26	KAVERI . ARAVINDA . MARAGUR	P	P	P	P	P	P	P
27	DANAMMA . MAHADEV . HANDIGANUR	P	P	P	P	P	P	P
28	BHARATI . SHIVANAND . MULAWAD	P	P	P	P	P	P	P
29	DASTGIR . NOUSHAD . NADAF	P	P	P	P	P	P	P
30	SHIVALEELA . SHANKARGOUDA . BIRADAR	P	P	P	P	P	P	P
31	SUSHMITA . ASHOK . TAKKALAKI	P	P	P	P	P	P	P
32	PRIYANK . SIDDAPPA . MAMADAPUR	P	P	P	P	P	P	P

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33	KRISHNAVATI . HANAMANT . KUNDARAGI	P	P	A	P	A	P	A
34	SHRIDEVI . BABU . TORAVI	A	P	P	A	P	A	P
35	PRASHANT . SOMANING . KAMBALE	P	A	P	P	A	P	A
36	ASHWINI . RAMAPPA . RATHOD	A	P	P	P	P	P	A
37	RAMESH . SOMU . RATHOD	P	A	P	A	P	A	P
38	SNEHA . SANJAY . KATAKADHAND	A	A	P	P	P	A	A
39	ANNAPOORNA . TIPPANNA . TALAVAR	A	P	A	P	A	P	A
40	SHIVANAND . JAGADEVAPPA . BIRADAR	P	A	P	A	P	A	P
41	AMRUTA . SHREEDHAR . GUDDAPUR	P	P	P	A	P	A	P
42	ASHWINI . SANGAPPA . HAJERI	A	A	A	P	A	P	A
43	SHANTAPPA . REVANASIDDAPPA . GUNDAGI	P	P	A	A	P	P	P
44	HANAMANTARAYAGOUD . G . BIRADAR	A	A	P	P	P	A	P
45	HEMANT . PARASHURAM . RAYABAGI	P	P	P	P	A	P	A
46	RATANRAJ . SIDDAGONDA . PATIL	A	A	A	P	P	A	P
47	SHOBHA . RAMESH . NIMBARGI	P	P	P	A	P	A	P
48	NETRA . YAMANAPPA . ILAGER	P	A	A	P	A	P	P
49	VIDYASHREE . RAMAPPA . HONAWAD	A	P	P	P	P	P	A
50	JYOTI . SHREESHAIL . NAD	P	A	A	P	A	P	P
51	HEENAFARAVIN . KAISAR PASHA . JAHAGIRDAR	A	P	P	P	P	A	A
52	GURURAJA . NARASANAGOUDA . DYAMAN	P	A	P	A	P	A	P
53	ASHA . ASHOK . KASHETTI	A	P	A	P	A	P	A
54	PAVAN . KENCHAPPA . PUJARI	P	A	P	A	P	A	P
55	GIRISH . VITTHAL . BIRADAR	A	P	A	P	A	P	P
56	NAVEEN . DEVENDRAPPA . HOSAMANI	P	P	A	P	P	A	A
57	SRIHTI . BASAVARAJ . BIRADAR	A	P	P	A	P	A	P
58	POOJA . BHIMARAY . KANAMADI	A	P	A	P	P	P	A
59	POOJA . RAMESH . BANSODE	P	A	P	A	P	P	A
60	RASHMI . PRANESH . JOSHI	A	P	P	P	P	A	P
61	SUDHA . GURUMURTHI . HIEMATH	P	A	P	A	P	A	P
62	SUSHMA . MALLIKARJUN . HERALAGI	P		P	A	P	A	P
63	JATTEPPA . GOLLALAPPA . SHIRAKANALLI	A	P	P	A	P	A	P
64	AKASH . NAGAYYA . HIEMATH	A	P	P	P	P	P	A
65	KAMALABAI . SANGAPPA . DIVATAGI	A	P	A	P	A	P	A
66	SNEHA . RAMESH . HORTI	P	A	P	A	P	A	P
67	PREMA . SUBHAS . ALLOLTI	A	P	P	P	A	P	A
68	ANKITA . ANIL . ALAKUNTE	P	A	P	A	P	A	P
69	SACHIN . MAHADEVA . METRI	A	P	P	P	A	P	A
70	AYISHA . RAJESAB . MUJAWAR	P	A	P	A	P	A	P
71	MADAGOND . SHIVANAND . BIRADAR	A	A	P	P	P	P	A
72	SAMPREETA . IRAYYA . HIEMATH	P	A	P	A	P	A	P
73	PARVATI . NANDIKESH . BANNAD	A	P	A	P	P	P	
74	MAHALAKSHMI . SIDRAMESHWAPA . .	P	A	P	A	P	A	P
75	SHRIMANT . BEERAPPA . GUGADADDI	A	A	P	P	P	P	A
76	SUSHMA . ANNAPPAGOUDA . BIRADAR	P	A	P	A	P	A	P
77	SOUMYASHREE . VISHWANATH . KOLARI	P	A	P	A	P	A	P
78	VAISHNAVI . RAMESH . NILAGAR	A	P	P	A	P	P	A

HEAD

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

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

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

79	ABHILASH . SANGAYYA . CHARANTIMATH	P	P	A	P	A	P	P
80	ANNAPOORNA . MALAKAPPA . WADDAR	P	A	P	A	P	A	P
81	SOMANATH . DATTATREYA . SUNAGAR	P	A	P	A	P	A	P
82	PREMA . PAVADEPPA . HARIJAN	A	P	A	P	A	P	A
83	RANJANA . SHRISHAIL . TAKKALAKI	P	A	P	A	P	A	P
84	VITTAL . HANAMANT . DUDAGI	A	P	P	A	P	P	P
85	REVATI . SURESH . BAGALI	P	P	A	P	P	A	P
86	BHUVANESHWARI . VISHWANATH . KALBURGI	P	A	P	A	P	A	P
87	KOMAL . SHANTARAM . GARAD	A	P	A	P	A	P	A
88	PARVATI . VITTHAL . DALAVAYI	P	A	P	A	P	A	P
89	ASHWINI . APPANAGOUDA . PATIL	A	A	P	P	P	P	A
90	SHWETA . BASAVARAJ . GIDAVEER	P	P	A	P	A	P	P
91	SAHANA . SIDDARAMESHWAR . BILGI	P	A	P	P	P	P	A
92	ASHWINI . SANGANAGOUDA . INGALAGERI	A	A	P	A	P	A	P
93	LAXMI . PRAKASH . BADIGER	P	P	A	P	A	P	A
94	SACHIN . BASAVARAJ . SAJJAN	A	P	A	A	P	A	P
95	POOJA . DHAREPPA . SINAKHED	P	A	P	P	A	P	A
96	SHEETAL . SHIVANAND . JATTI	A	P	A	P	A	P	P
97	DEEPA . SANGANAGOUDA . MAMADAPUR	P	A	P	A	P	A	P
98	RAGHU . REVANASIDDA . LALASANGI	A	P	A	P	A	P	A
99	SUDHA . SHRINIVAS . TALAWAR	A	A	P	A	P	A	P
100	AISHWARYA . ASHOK . KAVITAL	P	A	P	P	A	P	A
101	ANITA . SHRISHAIL . DESAI	A	P	A	P	P	A	P
102	BASAVARAJ . KASANAGOUD . PATIL	P	A	P	P	P	P	A
103	RADHA . MALLIKARJUN . REDDY	A	P	P	P	P	P	A
104	GURUDEVI . BABURAY . BADADAL	P	A	P	P	A	P	A
105	AISHWARYA . MALLIKARJUN . YARANAL	A	A	P	P	P	A	P
106	ASHA . BARAIMAM . SHANAVALA	P	P	A	P	A	P	P
107	TIPPANAGOUDA . CHANDRASHEKHAR . HALLI	A	P	A	P	A	P	A
108	BASAVARAJ . PRAKASH . GOBBI	A	A	P	A	P	A	P
109	POOJA . SHIVANAND . HIRAGOND	P	A	P	A	P	A	P
110	PINTU . TUKARAM . RATHOD	A	P	P	P	P	P	A
111	AKSHATA . MALLAYYA . PATED	P	A	A	P	A	P	P
112	GOURAMMA . AMOGEPPA . TALAGERI	A	A	P	P	A	P	A
113	SAVITA . HABAPPA . RATHOD	P	P	A	P	P	A	P
114	ARCHANA . SHRIMANT . RATHOD	A	P	A	P	A	P	P
115	AKSHAYKUMAR . SIDARAY . TOLONUR	P	A	P	A	P	A	P
116	PRIYA . JAKKANAGOUDA . PATIL	P	A	P	A	P	A	P
117	ABDULAJEEJ . ALLISAB . NADAF	A	P	A	P	A	P	P
118	APPAJI . VILAS . KAMBLE	P	A	P	A	P	P	A
119	SAHEBAGOUDA . RAMANAGOUDA . EVOOR	A	P	A	P	A	P	P
120	SHARANU . MALLIKARJUN . MURAGOD	A	P	P	P	P	A	P
121	RAJESHWARI . BASAVARAJ . HONAWAD	P	P	A	P	A	P	P
122	TEJASHWINI . RAMESH . BASAVAPRABHU	A	P	P	P	P	P	A
123	MEGHA . MALLIKARJUN . PATTAR	P	P	A	P	P	P	P
124	ANUSHA . BADARISH . MAHISHI	A	P	P	A	P	P	P
125	SHANKARAYYA . SHRISHAIL . HIREMATH	P	A	P	P	P	A	P
126	ROJA . BHIMASHANKAR . PATIL	P	P	P	A	P	P	P

HEAD

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

127	NAGENDRAPPA . SANJEEV . PATIL	P	P	P	P	A	A	P
128	SNEHA . SAMPATKUMAR . YADRAMI	A	P	P	P	P	P	A
128	ASHWINI . RAVIKUMAR . SAJJAN	P	A	P	A	P	A	P
129	NAGESH . SIDDHALING . NINGADALLI	A	P	P	P	P	P	A
130	KAVYASHREE . PARAMANANDA . TELI	P	A	P	A	P	A	P
131	MALLIKARJUN . SADASHIV . MALLAD	A	P	A	P	P	P	A
132	SHUBHANGINI . APPASAHEB . NIKKAM	P	A	P	A	P	A	P
133	SHILPA . SANGARADDI . NAGARADDI	A	P	P	P	P	P	A
134	ASHPAK . SAIPUNASAB . BHAGWAN	P	A	P	A	P	A	P
135	PRATIK . HUCHCHAPPA . WAGHMORE	A	P	P	P	P	P	A
136	PRASANKUMAR . BASAVARAJ . BIRADAR	P	A	A	P	A	P	P
137	BHIMANNA . PARASHURAM . SHAKHAPUR	A	P	A	A	P	A	P
138	SACHIN . YALLAPPA . ROOPANOR	P	A	P	P	A	P	A
139	DATTAPPA . MALAPPA . MARAGOND	P	A	P	A	P	A	P
140	POOJA . SIDRAMAPPA . HATAGANI	A	P	A	P	A	P	A
141	PRIYANKA . KALU . BELLUNDAGI	P	A	P	A	P	A	P
142	SWAPNA . SIDDANNA . BANDARGATI	P	P	P	P	A	P	
143	AKASH . YALLAPPA . KATTI	A	P	P	P	P	A	P
144	SHRIDHAR . DYMANNA . KUDARI	A	P	A	A	P	P	A
145	NEHAA . GURUBASU . CHOUGULE	P	P		P	P	A	P
146	SHAMBHAVI . UMESH . BHUSHETTI	P	A	P	P	P	P	A
147	ARAVIND H . VENKATRAMULU . .	P	A	P	A	P	A	P
148	APOORVA . ANNARAY . HIROLI	A	P	P	P	P	P	A
149	ASHWINI . KALLAPPA . UPPAR	P	A	P	A	P	P	A
150	SHRUTI . APPASAHEB . NANDASHETTI	A	P	A	P	P	A	P
151	AKSHATA . SHIVAKUMAR . BIRADAR	P	A	P	P	A	P	A
152	RAJESHWARI . RAMANAGOUDA . BIRADAR	A	A	P	P	P	P	P
153	SAHANA . SIDDALINGAPPA . DUBALAGUNDI	A	P	A	P	A	P	A
154	IRANNA . BASALINGAPPA . KATTIMANI	A	A	P	P	A	P	A
155	AISHWARYA . SHIVANAND . GAIKWAD	P	A	P	A	P	A	P
156	AJAY . SHIVANAND . KADAGOL	A	P	P	P	P	P	A
157	POOJA . BAHUSAB . WAGAMORE	P	A	P	A	P	A	P
158	CHANDRIKA . ASHOK . SAJJAN	A	A	A	P	P	P	A
159	VIKRAM . AMARESH . RATHOD	P	P	P	P	P	P	P
160	CHETAN . CHANNABASAPPA . BIRADAR	P	A	P	A	P	P	A
161	NAGENDRAPPA . SANJEEV . PATIL	A	A	P	P	P	A	P

Pradyoti
HEAD
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Las
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[Signature]
TQAC, Co-ordinator
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 Vijayapur.



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



DEPARTMENT OF BOTANY
ATTENDANCE LIST FOR TUTORIALS (2017-18)

CLASS: B.SC IV SEMESTER

FACULTY NAME: M.S Rowinpal & G.M. Nksor.

SL. NO	NAME OF THE STUDENT	21/1/18	4/2/18	11/2/18	18/2/18	25/2/18	4/3/18	18/3/18
1.	SHRUTI. GONDHALI	P	P	P	P	P	A	P
2.	AAMIR SOHAIL . MULLA	P	P	A	P	A	P	A
3.	ABHISHEK . CHOUDHARI	P	P	P	P	P	A	P
4.	ADITYA . SALUNKE	P	P	P	A	P	P	P
5.	AKSHATA . PATTANAD	A	P	P	P	P	P	P
6.	AKSHATA . SUGUR	P	P	A	P	A	P	A
7.	AKSHAY . BADIGER	P	A	P	P	P	A	P
8.	AMBADAS . HAMELPURE	P	P	A	P	P	P	P
9.	AMRUTA . GIDAVEER	P	P	P	A	P	P	P
10.	ANITA . CHOUDRI	A	P	P	P	P	P	P
11.	ANJANADEVI . KABBIN	P	P	P	A	P	P	P
12.	ANJANEYA . KALAL	A	P	P	P	P	P	A
13.	ARCHANA . MISAL	P	A	P	A	P	P	P
14.	ARCHANA . PATIL	P	P	A	P	A	P	P
15.	ARJUN . MOHITE	P	P	A	P	P	A	P
16.	ARUNKUMAR . BANIKOL	P	P	P	P	P	P	P
17.	ARUNKUMAR . HANDIGANUR	P	P	P	P	A	P	A
18.	ARUNKUMAR . MAMADAPUR	A	P	P	A	P	P	P
19.	ASHARANI . MATHAPATI	P	A	P	P	P	P	P
20.	ASHWINI . KSHATRI	P	P	A	P	P	P	P
21.	BHAGYASHRE . BIRADAR	P	P	P	A	P	A	P
22.	SHRISHAIL . BIRADAR	P	P	P	P	P	P	A
23.	CHAITRA . NEELAGAR	A	P	P	P	P	P	P
24.	CHAITRA . MAYUR	P	A	P	P	P	P	P
25.	CHANDRAKANT . RATHOD	P	P	P	P	A	P	P
26.	CHARANTAYYA . HIREMATH	A	P	P		P	P	A
27.	ANIL . CHAVAN	P	P	A	P	P	A	P
28.	DANAMMA. BHUSARI	P	A	P	P	P	P	P
29.	DEEPTI . MASUTI	P	P	P	P		P	P
30.	DEVENDRA . BIRADAR	P	P	P	P	P	P	P
31.	DIVYA . BHAIKASHETTI	P	A	P	A	P	P	A
32.	GAJANAN . CHAKUNDI	P	P	A	P	P	P	P
33.	GANESH . KUDAGI	P	P	P	P	P	P	P
34.	GAYATRI . KODEKAL	P	P	P	P	A	P	P
35.	GEETA . BIRADAR	P	A	P	P	P	P	P
36.	GIRESH . CHOUDHARI	P	P	A	P	P	A	P
37.	HEMAVATI . KHANDEKAR	P	P	P	P	P	P	P
38.	RAVI . JINJARWAD	A	P	P	P	P	A	A
39.	KANYAKUMARI . HUTAGI	P	P	P	P	P	P	P
40.	KARTIK . JADHAV	P	P	A	P	A	P	P
41.	KAVERI . CHOUDHARI	A	P	P	P	P	P	P

Continued --

42.	KAVITA . ENAGI	P	A	P	A	P	A	P
43.	KEERTI . MUDEBIHAL	P	P	P	P	A	P	A
44.	KHATUNABI . MULLA	P	P	A	P	P	P	P
45.	LAKSHMAN . CHATTARAKI	A	P	P	A	P	P	A
46.	LAXMI . BADIGER	P	P	P	P	P	A	P
47.	MADIWALAPPA . BADIGER	P	A	P	P	A	P	P
48.	MAHANTESH . KARIKABBI	P	P	A	P	P	P	P
49.	MAHESH . PARASANAHALLI	A	P	A	P	P	P	A
50.	MALAKARADDI . CHOUDRI	P	P	P	P	P	P	P
51.	MALASHREE . CHAVHAN	P	A	P	P	A	P	P
52.	MALAVIKA . BIDARI	P	P	A	P	P	P	P
53.	MALLAMMA . BIRADAR	P	P	P	P	P	P	P
54.	MALLANAGOUD . PATIL	A	P	P	P	P	P	P
55.	MALLAPPA . PATIL	P	P	P	P	A	P	P
56.	MANOJ . DUDAGI	P	P	A	P	P	P	P
57.	MARUTI . BARAKADE	A	P	P	P	P	P	A
58.	MEGHA . KUBSAD	P	P	P	A	P	A	P
59.	AVINASH . PARULEKAR	P	A	P	P	P	P	P
60.	PAVANAKUMAR . POLICEPATIL	P	P	A	P	A	A	P
61.	SUNIL . PAWAR	A	P	P	P	P	P	P
62.	POOJA . ANGADI	P	P	P	P	P	P	P
63.	POOJA . NAGARI	P	P	P	P	P	P	P
64.	POOJA . DESAI	P	A	P	A	P	P	P
65.	POOJA . PYATIGOUDAR	P	P	A	P	A	P	P
66.	PRACHI . PATIL	P	P	P	P	P	A	P
67.	PRANESH . KANNOLLI	A	P	P	P	P	P	P
68.	PRATIMA . HANJI	P	P	P	P	P	P	P
69.	PREETI . PAWAR	P	P	A	P	A	P	A
70.	PRIYA . KATAKE	P	A	P	P	P	P	P
71.	PRIYA . GABASAVALGI	A	P	P	P	P	P	P
72.	PRIYA . TOLE	P	P	P	P	P	A	P
73.	PRIYA . PATIL	P	P	P	P	A	P	A
74.	PRIYANKA . CHAVAR	P	P	P	P	P	P	P
75.	PRIYANKA . MANAGULI	P	A	A	P	P	P	P
76.	RAHEESA . USTAD	A	P	P	A	P	P	P
77.	RAHUL . NAIK	P	P	P	P	A	P	P
78.	RAHUL . BAGALI	P	P	P	P	P	A	P
79.	RAHUL . PATIL	P	A	P	P	P	P	A
80.	RENUKA . KOTARAGASTI	P	P	A	P	P	P	P
81.	SAGAR . JANGAMASHETTI	A	P	P	P	P	P	A
82.	SANDEEP . KUDIGANNOOR	P	P	P	P	P	P	P
83.	SANDEEP . RATHOD	P	A	P	A	P	A	P
84.	SANGAMESH . MUDHOL	P	P	P	P	A	P	A
85.	SANTOSH . NAYKODI	A	P	A	P	P	P	P
86.	SANTHOSH . MELINMANI	P	P	P	P	P	P	P
87.	SHANTALA . MADARKHANDI	P	A	P	P	P	P	A
88.	SHARANAGOUD . POLICEPATIL	A	P	P	P	P	P	P
89.	SHASHIKANT . RATHOD	P	P	A	P	P	A	P
90.	SHASHIKUMAR . BUDANUR	P	P	P	A	P	P	A
91.	SHILPA . DALWAI	P	A	P	P	A	P	P
92.	SHIVANAGOUD . BIRADAR	P	P	P	A	P	P	A
93.	SHIVANI . NAYAKODI	A	P	P	P	P	P	P
94.	SHIVARAJ . BAIRAMADI	P	P	P	P	P	P	P

continued ---

95.	SHREYA . SHETTY	P	P	P	P	P	A	P
96.	SHWETA . KAMGOND	A	P	P	P	P	P	A
97.	SHWETA . BIJAPUR	P	A	P	A	P	P	P
98.	SHWETA . KENGANAL	P	P	P	P	A	P	A
99.	SHWETA . RAJAPUT	P	P	A	P	P	A	P
100.	SHWETA . RUGI	P	P	P	P	A	P	P
101.	SNEHA . BISNAL	A	P	P	A	P	P	A
102.	SOMANATH . BAGALAKOT	P	A	P	P	P	A	P
103.	SOUMYA . BOGAR	P	P	P	A	P	P	A
104.	SOUMYA . SHEELWANTMATH	P	P	A	P	A	P	P
105.	SUJATA . CHAVAN	A	P	P	P	P	A	A
106.	SUMA . CHAVAN	P	A	P	P	P	P	P
107.	SUNIL . PAWAR	P	P	A	P	P	P	A
108.	SUPRIYA . KERUTAGI	P	P	P	A	P	P	P
109.	SUPRIYA . NIKKAM	A	P	P	P	A	P	A
110.	SUSHMITA . BILUR	P	A	A	P	P	P	P
111.	SWATI . GANACHARI	P	P	P	A	A	A	A
112.	TEJASHWINI . MANTRI	P	P	P	P	P	P	P
113.	TEJASWINI . CHAVAN	P	P	P	P	P	P	A
114.	UMESH . HOSAMANI	P	P	P	P	A	P	P
115.	UTTAM . KAMBLE	P	P	A	A	P	A	P
116.	VARSHA . TOPI	P	P	P	P	P	P	A
117.	VEENAKUMARI . BIRADAR	P	P	P	A	P	P	P
118.	VEERESH . KULAGERI	P	A	P	P		P	A
119.	VIDYA : HIREMATH	A	P	A	P	P	A	P
120.	VIDYASHREE . GOTYAL	P	P	P	P	A	P	A
121.	VIJAYALAXMI . NAGARALLI	A	A	P	P	P	P	P
122.	VIJAYALAXMI . PATIL	P	P	A	P	P	P	P
123.	VIKAS . JADHAV	P	P	P	P	P	P	P
124.	VIRESH . TOTAD	P	P	P	P	P	P	P
125.	AKSHAY . SUTAGUNDI	P	P	A	P	P	A	P

Pandeyi
HEAD

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VIJAYAPUR



DEPARTMENT OF BOTANY
ATTENDANCE LIST FOR TUTORIALS (2017-18)

CLASS: B.SC VI SEMESTER

FACULTY NAME: G.M. Nesure & Prof. L.L. Mulgankar

SL. NO	NAME OF THE STUDENT	21/1/18	4/2/18	11/2/18	18/2/18	25/2/18	4/3/18	18/3/18
1.	AISHWARYA . SAJJAN	P	P	P	P	P	A	P
2.	AISHWARYA . SHETTY	P	P	P	P	A	P	P
3.	AKSHAY . BANNE	A	P	P	P	P	P	A
4.	APOORVA . BHUI	P	P	P	P	P	P	P
5.	ARATI . KOTTALAGI	P	P	P	A	P	A	P
6.	ARATI . DUDAGI	P	P	A	P	P	P	A
7.	BASAVARAJ . MALLANNA	P	P	P	P	A	P	P
8.	BASAYYA . HIREMATH	A	P	P	P	P	A	P
9.	BHUVANESHWARI . BIRADAR	P	P	P	A	P	P	P
10.	BHUVANESHWARI . KOTIN	P	A	P	P	P	P	A
11.	BIBIZAHERA . BEVANUR	A	P	A	P	A	P	P
12.	CHANABASAYYA . HIREMATH	P	P	P	P	P	A	P
13.	SUSHMITA . CHOUDARI	P	A	P	A	P	P	A
14.	PRRIYANK . GHOUDRI	P	P	P	P	P	P	P
15.	DEEPA . KAMBLE	A	P	A	P	A	P	P
16.	DRAKSHAYANI . BIRADAR	P	P	P	P	P	A	P
17.	HANAMANT . DHUMALE	P	A	P	A	P	P	P
18.	HARSHA . BELAGALI	P	P	P	P	P	P	A
19.	IRANNA . BIRADAR	A	P	A	P	A	P	P
20.	PRIYAL . KASAR	P	P	P	P	P	A	P
21.	KASHINATHA . BAGALI	P	A	P	A	P	P	P
22.	KAVYA . RATHOD	P	P	P	P	P	P	
23.	LAXMEEKANT . HUNACHYAL	A	P	P	P	P	P	P
24.	LAXMI . MODI	P	P	A	P	A	P	P
25.	LAXMI . JUNJARAWAD	P	A	P	P	P	A	P
26.	LEELA . HARIJAN	P	A	P	A	P	P	A
27.	REKHAN . MALI	A	P	P	P	P	P	P
28.	MANJUNATH . BIRADAR	P	P	A	P	A	P	P
29.	MEGHA . WARAD	P	P	P	P	P	A	P
30.	PARIS . NEMGOUD	P	A	P	A	P	P	
31.	POOJA . KHAMITKAR	A	P	A	P	P	P	P
32.	POOJA . SAJJAN	P	P	P	P	P	P	P
33.	POOJA . TALAKERI	A	P	P	A	P	A	P
34.	POORNIMA . KESSTI	P	A	P	P	A	P	P
35.	PREKSHA . KASAR	P	P	A	P	P	P	A
36.	PRIYANKA . POOJARI	P	P	P	P	A	P	P
37.	PRIYANKA . RATNAKAR	A	P	P	A	P	A	P
38.	RAFEEQ . SOUDAGAR	P	A	P	P	P	P	A
39.	RAHUL . RATHOD	P	P	A	P	A	P	P
40.	RAJKUMAR . BHAIRASHETTI	P	P	P	A	P	P	P
41.	RAMYA . BADIGER	A	P	P	P	P	P	P

Continued

42.	RANJEETA . DALAWAI	P	P	P	P	P	P	A
43.	RAVI . GADED	A	P	P	P	P	P	P
44.	RIYA . SHETTY	P	A	P	A	P	P	A
45.	ROHAN . BELLUNDAGI	P	P	A	P	A	P	P
46.	ROHINI . VASTRAD	A	P	P	P	P	A	P
47.	SAIPAN . KHATIK	P	P	P	A	P	P	P
48.	SANDYA . RATHOD	P	A	P	P	A	P	A
49.	SANGEETA . CHAVAN	P	P	A	P	P	A	P
50.	SANTOSH . RATHOD	A	P	P	P	P	P	A
51.	SAVITRI . MUDALAGI	P	P	P	A	P	P	P
52.	SHREEDHAR . PARASHETTI	P	A	P	P	A	P	A
53.	SHRUTI . MASALI	A	P	A	P	P	P	P
54.	SHRUTI . NAKKARAGUNDI	P	P	P	P	P	A	P
55.	SIDDHARAM . KOTTALAGI	P	P	P	A	P	P	A
56.	SIDRAMAYYA . STAVARAMATH	P	A	P	P	A	P	P
57.	SOUMYA . YATADVAI	A	P	A	P	P	P	P
58.	SUNIL . CHAVAN	P	P	P	P	P	A	P
59.	SUNITA . PATIL	P	A	P	A	P	P	A
60.	SUSHMITA . A.T.P.E	P	P	A	P	A	P	P
61.	SWATI . DALAWAI	A	P	P	P	P	A	P
62.	GANGA . THOBBI	P	P	P	A	P	P	A
63.	VIJEETA . THORAVI	P	A	P	P	P	P	P
64.	VINITA . KAMBALE	P	P	A	P	A	P	A
65.	VISHAL . BIRADAR	A	P	P	P	P	A	P
66.	TANUJA . VAGOLI	P	P	P	A	P	P	A

55. RANJEETA . DALAWAI

56. SIDRAMAYYA . STAVARAMATH

57. SOUMYA . YATADVAI

58. SUNIL . CHAVAN

59. SUNITA . PATIL

60. SUSHMITA . A.T.P.E

61. SWATI . DALAWAI

62. GANGA . THOBBI

63. VIJEETA . THORAVI

64. VINITA . KAMBALE

65. VISHAL . BIRADAR

66. TANUJA . VAGOLI

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POLLUTION

Pollution laws have become very important for industries. The industries creating pollution has to work under the permissible limit given in these laws. Disobedience of these pollution laws can lead to closer of industry and criminal prosecution for management.

It is worthwhile to mention that all industries are not creating pollution. From last some years the procedure under labour laws are made simple and transparent. Now most of the industry can deal with these laws without any difficulty and complication.

There are three main laws relating to pollution.

- i) The Air (Prevention and Control of Pollution) Act- 1981.
- ii) The Water (Prevention and Control of Pollution) Act- 1974.
- iii) The Environment (Protection) Act-1986.

There are about fifteen rules under these Acts relating to different matters. These Acts and Main rules are given under Heading "Acts" in this programme.

The Water (Prevention And Control Of Pollution) Act- 1974 is normally applicable after 20 employees. Even a generator in your establishment can make The Air (Prevention and Control of Pollution) Act- 1981 applicable on your establishment.

These Acts provides Central & State Boards for the Prevention and Control of pollution for air and water. The Environment Protection Act empowered Central Government to protect and improve environment.

These Acts prohibits industries to spread pollution. The industries are bound to discharge any pollutant within standards prescribed for those pollutants. They also carry many precautionary regulations for safety against pollution.


The industries have to take no objection certificates from Pollution Board (normally State Board). The refusal and withdrawal of these "No Objection Certificates" by Pollution Boards can even lead to close of industry.

The closer of units are ordered normally only if deficiencies are not corrected after giving due time by pollution board to correct them.

The process of obtaining No Objection Certificates are made quite simple these days. Acknowledgement of Application for No Objection Certificates by Pollution Board is considered as No Objection Certificate for most of the Small Scale Industries. Now this certificate is issued for five years for most of non-polluting industries instead of one year. **The "No Objection Certificate" is automatically granted after four months of it apply if NO QUERY OR OBJECTION is raised by pollution board.**

continued.

For transparency in the working of pollution boards, A special provision is made. Every State Pollution Board has to maintain a register containing particulars of the person to whom consent (No Objection Certificate) is granted. Any interested person can inspect this register at all reasonable times.


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Photo morphogenesis

Introduction

Big sessile organisms like plants and fungi and small organisms whose motility can't move them that far, like bacteria and protists, have no option but to function in the environment they are found in. For photosynthetic organisms it has been adaptive for them to develop mechanisms to sense their light environment, and adjust their form and metabolism to optimize their performance under their local conditions. Since light environments change, these organisms have also developed the ability to continuously adjust their function to current conditions. Taken together these responses to light constitute the phenomenon known as photo morphogenesis.

The definition of photo morphogenesis, as applied in this module, is any change in form or function of an organism occurring in response to changes in the light environment. Photo morphogenesis is often defined as light-regulated plant development (Figure 1), but there are also changes in morphology and/or cell structure and function, which occur as transient acclimatization's to a changing environment, which are also light regulated. Particularly if this more inclusive definition is used, photo morphogenesis is a process common to organisms well beyond the plant kingdom. While there may be only a few examples of photo morphogenesis in the animal kingdom, it is a common feature of development in fungi, protists, and bacteria, as well as plants. While this module will focus on what is known from studies of plant photo morphogenesis, there will be selected examples from other kingdoms.

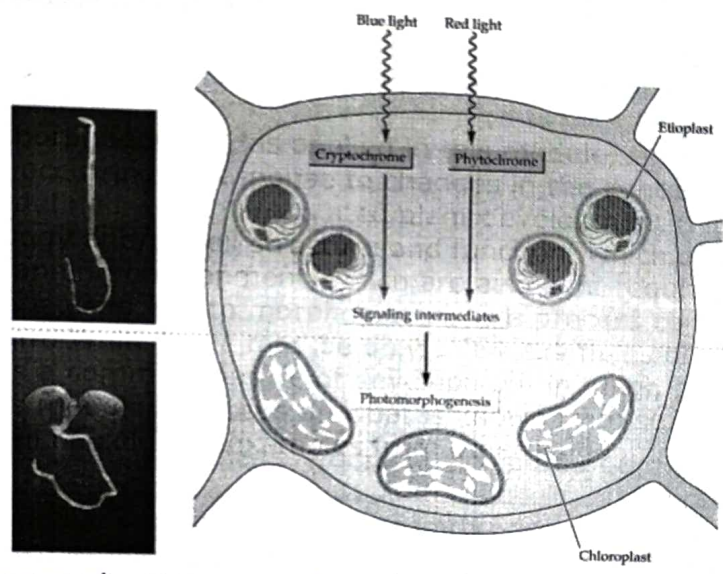


Figure 1. Photomorphogenesis as a morphological and as a cellular process. The left photos show the change in form of an *Arabidopsis thaliana* seedling grown in darkness (top) or in white light. The right hand illustration shows the change in chloroplast structure and diagrams the progress of light signals through two receptor systems, cryptochrome and phytochrome. Adapted from Biochemistry and Molecular Biology of Plants, (c) American Society of Plant Biologists, with permission.

The Information Content Of Light

Photomorphogenesis is an organismal response to information present in the light environment.

Continued



Figure 2. A sunfleck in a patch of *Oxalis oregana*. A gap in the shade exposes this forest floor herb to full sunlight. The fleck will move across the plants as the sun moves, causing the plants to experience two widely different light environments on a short time scale (minutes). Photograph courtesy of Dr. Olle Bjorkman.

The processes of photomorphogenesis integrate and respond to information about the light environment in parallel with the time scales of the changes described. The photosensory systems used in photomorphogenesis can couple the absorption of photons to visible responses within seconds, as in the case of phototropism in the fungus *Phycomyces*, or light signals can be integrated over days, as in most cases of photoperiodic induction of flowering.

The responses to light can be dynamic and reversible, particularly in the case of unicellular organisms, or they can be permanent changes in form. Two different types of phototropism, first described by Charles and Francis Darwin (Darwin and Darwin, 1880), illustrate this distinction. The form the Darwins described as heliotropism, now conventionally thought of as phototropism, is a permanent differential growth towards light. The orientation of leaves that places their blades at right angles to incident light, which the Darwins called diaheliotropism, and which is now referred to as solar tracking, results from reversible differences in hydrostatic pressure in cells at the base of the leaf. (see "Sunflower Solar Tracking" video on Plants in Motion, Hangarter, 2000) Phototropism leaves a permanently altered stem structure, the classic example being elongated cells in a grass or dicot seedling stem (see "Phototropism" videos on Plants in Motion, Hangarter, 2000). Conversely solar tracking movements in leaves [studied principally in the Fabaceae (legumes), and Malvaceae (mallows)] are achieved by changes in the hydrostatic pressure (turgor) in cells supporting the leaves (Koller, 1990). These changes are repeated daily with no plastic change in the leaf base.

Characteristics of The Main Classes of Photoreceptors, and The Light Signals They Respond To

Given the diversity of types of information sensed concerning the light environment, the diversity of organisms exhibiting some type of photomorphogenic response to light, and the diversity of possible responses, it is not surprising that there are several classes of photoreceptors used to sense the light environment at the molecular level (Devlin et al., 2007). At the same time plant photoreceptors parallel those of animals in being limited to an unexpectedly small range of types of molecules. At first examination, the plant photoreceptors separate in to just two main groups: sensors that have absorption maxima and transduce responses to light principally in the red region of the spectrum, and sensors that have absorption

continued

maxima in the blue/UV-A region (Franklin et al., 2005).

The reasons for the specializations of photoreceptors for these regions of the visible spectrum relate to the kinds of information available in the daylight spectrum, and how it can be used. In terrestrial environments, the absorption of light by chlorophyll shifts the light transmitted through canopies to longer wavelengths, so this spectral region is important for sensing light quality. Blue light remains a reliable indicator of sunlight, and because it is more subject to scattering, gradients of light intensity can be set up within relatively short distances across tissues and even large cells, providing a mechanism for sensing light direction. In aquatic environments blue light sensing takes on even greater importance, because of the absorption of red light by water.

The red light sensing photoreceptors, the phytochromes, are a single family of proteins with amino acid sequence homology spanning from cyanobacteria to non-photosynthetic bacteria to plants. All use similar chromophores (one of 3 biliterienes similar to a heme; (Burgie and Vierstra 2014)), and share other aspects of structure, function and signal transduction. Phytochromes are the dominant contributors to the sensing of light quality in plants, and also participate in the sensing of light presence, intensity and duration, and to a lesser extent light direction.

The blue light sensors are a diverse group of molecules performing similar functions in different contexts (Lin, 2002), so instead of a family of related molecules they more closely correspond to a guild. Some blue light responses can be induced by both blue and UV-A light, while others are responsive to only blue light. Different photomorphogenic responses to the same spectral region exhibit action spectra with different peaks and fine structure. Two distinct guild members use flavin/pterin chromophores, while a third sensor is a carotenoid. One sensor functions principally in phototropism, another in sensing light quality and duration, and a third, light intensity in specific cells. These photoreceptors have been identified in seed plants by a combination of genetic and biochemical studies. There are responses in protists, fungi, green algae and ferns that exhibit a similar action spectra to the seed plant responses, but for which the identity of the photoreceptor has not been as rigorously established.

The Phytochrome Photoreceptors

The phytochrome family of photoreceptors has an unusual feature that was a significant advantage in the study of the phytochrome regulation of photomorphogenesis, and the purification and characterization of the photoreceptor itself. The chromophore for phytochrome is photochromic, i.e., it undergoes a change in conformation that makes a stable change in its light absorption properties. When the chromophore is in one state, the phytochrome molecule is inactive, and when it is in the other state the phytochrome molecule initiates what are to this point poorly understood signaling processes. Phytochromes are synthesized in the inactive form, for which the absorption maximum is 660 nm. The red absorbing form, Pr, on absorption of a photon, converts to a form with an absorption maximum of 730 nm, Pfr (far red). The Pfr form is the active form, but it can be converted back to Pr (and inactivated) by the absorption of a far-red photon (Figures 3 and 4).

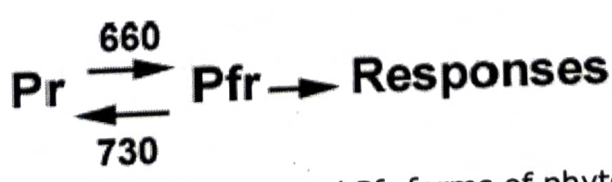


Figure 3. Diagram of interconversion of the Pr and Pfr forms of phytochrome.

Continued

Some Phytochrome Regulated Aspects Of Photomorphogenesis

The sensitivity of phytochromes to red and far-red light makes this class of photoreceptor ideally suited for the sensing of shade in the terrestrial environment. Chlorophyllous leaves absorb most of the visible light spectrum, but are transparent in the far-red. Far-red light enriched shade light shifts the equilibrium between the Pr and Pfr forms significantly towards Pr. The inactivation leads to the inhibition of seed germination in plants that normally thrive only in high light. When mature plants respond to shade, the loss of the Pfr signal, which inhibits stem elongation and stimulates leaf development, leads to increased height and limited allocation of resources to leaves until the shade condition has been overcome. A fascinating sidelight to the shade avoidance response is that there is enough far-red light scattered from neighboring plants to shift the equilibrium towards Pr even before a plant is overtopped by its neighbors, so the phytochrome system senses shade even before it occurs (Ballaré et al., 1994).

The interconvertability of the two forms of phytochrome is an important feature for sensing light intensity as well. In any natural light environment there will be photons of wavelengths that can be absorbed by each of the two forms of phytochrome. This results in individual molecules of phytochrome cycling between the two forms. It has been found that the cycling rate can be influenced by light intensity, and that cycling rate is converted to a signal regulating developmental adaptations to different light intensities.

Sensing low levels of light, as little as the few photons that filter through several centimeters of soil, is another function carried out by the phytochrome system. The developmental program that follows germination is "de-etiolation", the conversion from a below ground growth form characterized by high stem elongation rates, little or no leaf expansion and no chloroplast development to the growth form of a conventional mature plant. Seedlings de-etiolate in

Continued

response to light through a coordinated set of developmental changes in stem and leaf morphology, paralleled by the establishment of the biochemistry required for photosynthesis. The high sensitivity to light allows this process to begin even before the seedling breaks through the soil. (see Awakened by a Flash of Sunlight). There is nothing special about the efficiency of photon absorption by phytochrome, but plants produce one form of the molecule (the A-type phytochrome; see below) at extremely high levels, and it takes only a very small percentage of this population being converted to the Pr form to begin de-etiolation. This is the response described in the introduction as a response to the simple presence of light.



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REPORT

Prof .L.L. malghan ,Ms Rohini Pol and G.M. Nesur. faculty of Botany department conducted the tutorials for the BSc II, IV and VI semester students in the academic year 2017-18. The student attended the classes as per the prior set time table .

These tutorials posed to enhance the additional knowledge to the existing curricular study. They became more study Oriented. The students here studied about the extra information about syllabus.


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