



Digras Vibhagiya Shikshan Prasarak Mandal's
**Bapuraoji Butle Arts, Narayanrao Bhat Commerce &
Bapusaheb Patil Science College, DIGRAS**

College Code : (Sr.) 405

DIST. YAVATMAL 445203

College Code : (Jr.)
Pay Unit - 05640100083 / 146
Board - 08.04.002

STD Code : 07234 Ph. (O) 222022

Website : www.bbnbbcollege.org

E-Mail : prncipal.bnbcollege@gmail.com

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Sant Gadge Baba Amravati University Amravati Examination Summer 2020

B.P.Science B.B.Arts,N.B.Commerce and College, Digras , Center No. 405

M.Sc.(Part I) Semester I (CBCS) Examination

BOTANY

(Biology and Diversity of Algae and Bryophytes)

Assignment

Name of the Student- Ku.Ghoshali Vitthal Jadhao


Roll No.- 20010

- i) Solve any two questions only,each question is of 10 marks
- ii) Draw well labeled diagrams wherever necessary
- iii) Write on appropriate size sheet and submit in PDF format to me upto 29/10/2020
- iv) Sign and write the name at last of assignment

- Q1. Describe in detail thallus structure and ultrastructure of algal cell 10
- Q2.Discuss in detail the general account of Ulotrichales 10
- Q.3 Give an account on vegetative propagation in Bryophytes 10
- Q4. Give an detail account on Anthocerotales 10


(Dr.M.M.Dhore)

**Examiner
Head**
Department of Botany
B.B.Arts,N.B.Commerce &
B.P.Science College,Digras


Officiating Principal
B.B.Arts,N.B.Commerce &
B.P.Science College,Digras



Sant Gadge Baba Amravati University

Amravati Examination Summer - 2020

B.B.A's, N.B. Commerce and B.P. Science

College Digras

Assignment - 2019-2020

M.Sc. (Part I) Semester-I (Botany)

Subject : Biology and Diversity of Algae and Bryophytes.

Student Name : K. Ghoshali Vithal Jadhao

Roll No : 20010

Date : 29-10-2020

$\frac{18}{20}$

Seventeen

mark

Conversion -

20 : 17, 80 : 68,

$80 \times 68 \div 20 = 68$

Sixty Eight

mark

(Dr. M.M. Dhore)

Q. 1) Describe in detail thallus structure and ultrastructure of Algal cell.

Ans: Thallus structure in algae :

The plant body in algae is always a thallus. It is not differentiated in root, stem and leaves. Algae range in size from minute unicellular plants to very large highly differentiated multicellular forms e.g., some sea-weeds.

Their forms may be colonial, filamentous, septate, non-septate or branched, multinucleate siphonaceous tube where the nuclear division occurs without usual septa formation. Structural and cellular organizations are important characters in the classification of algae and in establishing the interrelationship among them. Similarities of some morphological structures are seen among various classes of algae except the brown algae are considered to be the basic type from which, through evolution, other types of thalli developed.

The range of thallus organization in algae may be classified as follows:

- 1) Unicellular : motile and non-motile .
- 2) Aggregates : palmelloid and dendrooid
- 3) Colonial
 - (a) colony motile
 - (b) colony non-motile . ✓

- 4) Filamentous
 - (a) Un-branched
 - (b) Branched
 - (i) Simple
 - (ii) Heterotrophic
 - (iii) Pseudoparenchymatous
- 5) Siphonaceous
- 6) Parenchymatous

1) Unicellular type :

The unicellular types are seen in all groups of algae with the exception of the class phaeophyceae. The unicellular types may be amoeboid motile or non-motile, the motility being due to the movement of the flagella attached at the anterior end.

The number of flagella may be one or more, usually of flagella two or in multiples of two. The cells may be a rigid cell-wall or the outer layer of the protoplast forms do the periplast giving a definite shape to the cell or may allow changes in shape.

(a) Unicellular Amoeboid forms or Rhizopodial forms:

These algae lack flagella, the organs of motion, but are able to perform amoeboid movement by means of cytoplasmic growth e.g., Chrysamoeba.

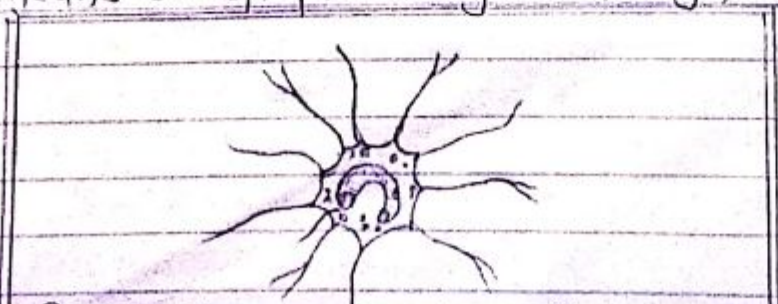


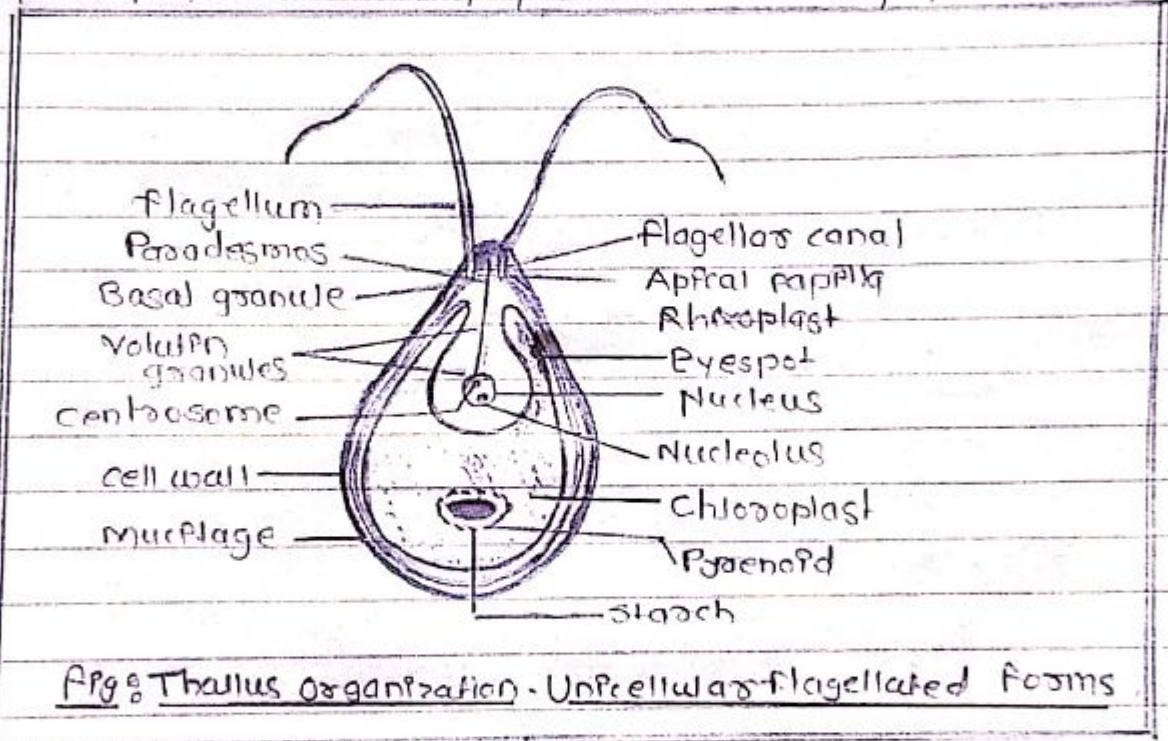
Fig: Thalassiosira weissflogii unicellular Amoeboid forms.



(b) Unicellular motile (flagellated) forms:

The unicellular motile forms are the simplest type of thallus in algae. The flagellated unicellular forms are seen in various classes of algae. The flagellated unicelled structures are distinctive of certain classes e.g., Euglenineae, Cryptophyceae, Charophyceae and Dinophyceae.

Flagellated vegetative cells are absent in cyanophyceae, phaeophyceae, Rhodophyceae, Bacillariophyceae.



Nature of flagellation, type and number of flagella and the attachment of flagella, is an important character in classification, in most of the chlorophyceae members, the flagella are usually two or in multiples of two in number, equal in size, or whiplash type and antero-posteriorly attached. The unicellular plant body may be spherical, oblong or pear-shaped and sometimes



6) By primary protonema:
 In Funaria the primary protonema are produced with the result of the germination of the spore. The protonema may break into small pieces; and each such fragment is capable to grow into a new protonema. The protonema bears many buds. Each bud develops into a new plant.

7) By secondary protonema:
 The protonema formed by other methods, than from the germination of the spore, are known as secondary protonema. Morphologically they are quite alike to primary protonema. The secondary protonema may develop from the exposed rhizoid or any other detached living part of the gametophyte. These protonema also produce buds which develop into gametophytes. This method of vegetative reproduction is very common in Funaria hygrometrica.

(28)

Tadhao

Name: Ku. Ghoshal (Pitthal) Tadhao



Shmushif

Officiating Principal
 B.B.Arts, N.B.Commerce &
 B.P.Science College, Digras



Name of College : B.B.Arts, N.B.Commerce & B.P.Science College,
Subject : BOTANY

Class : B.Sc. III (Sem - VI)

Appendix - V

Paper (with title) :Morphology,Gymno:
Paleobotanyand Utilization of Plants
Designation :Associate Professor

Name : DR.M.M.DHORE

Sr.No.	Name of Student	Marks awarded				Total Max. Marks : - 10 / 15 / 20	Signature
		Assignment / Project Assignment Max. Marks :- Roll no .	Seminar / Group Discussion Max. Marks :-	Study tour / Industrial visit / Visit to Education Institutes / Research Organization / Field work etc.	Unit Tests Max. Marks :-		
1	Ku.Aachal Vilas Ughade	14587	8		12	20	A. Ughade
2	Adnan Jawed Persuwale	14537	0		7	07	Adnan
3	Ku. Alfiya Jawed Parsuwale	14483	8		10	18	Alfiya
4	Arjun s.Khaparkar	14473	8		12	20	Arjun
5	Ku.Arati V. Chavhan	14512	8		10	18	Arati
6	Arshiyazma Khizar Ahmad	14490	8		12	20	Arshiyazma
7	Ateeba Saher Yasin Sheikh	14586	8		12	20	Ateeba
8	Awantika S. Shete	14547	8		10	18	Awantika
9	Ku. Bhavna S. Rathod	14523	8		12	20	Bhavna
10	Ku. Chanchal G. Jangamwar	14592	8		12	20	Chanchal
11	Ku.Dipalee D. Pawar	14474	8		10	18	Dipalee
12	Ku.Dipali S. Pusande	14544	8		12	20	Dipali
13	Dipak S. Chavhan	14521	8		7	15	Dipak
14	.Ku. Disha P. Mehta	14479	8		12	20	Disha
15	Dnyaneshwar N. Ade	14486	8		12	20	Dnyaneshwar
16	Ku. Gauri S. Utale	14599	8		10	18	Gauri
17	Harish S. Durge	14472	8		10	18	Harish
18	Ku. Huzaibazabeen K. Ahmad	14480	8		12	20	Huzaibazabeen
19	Ku. Javeria Firdos Ab.Quadir	14475	8		10	18	Javeria
20	Ku. Kajal B. Chavhan	14524	8		12	20	Kajal
Total of (1 to 20)			152		216	368	

Name & Signature of Teacher

1
2

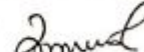
Date :

Note : This sheet shall be displayed on the notice Board before three weeks of commencement of the theory examination of that semester.

Sant Gadge Baba Amravati University, Amravati.
Consolidated Record of Internal Assessment Marks.


Verified Principal
Principal

B.B.Arts, N.B. Commerce &


H.O.D.
Head

Department Of Botany
B.B.Arts, N.B.Commerce & B.P.Science
College, Digras Dist. Yashwantrao Chavan

Name of College : B.B.Arts, N.B.Commerce & B.P.Science College,
Subject : BOTANY

Class : B.Sc. III (Sem - VI)

Appendix - V

Paper (with title) :Morphology,Gymno:
Paleobotanyand Utilization of Plants
Designation :Associate Professor

Name : DR.M.M.DHORE

Sr.No.	Name of Student	Marks awarded				Total Max. Marks :- 10 / 15 / 20	
		Assignment / Project Assignment Max. Marks :-	Seminar / Group Discussion Max. Marks :-	Study tour / Industrial visit / Visit to Education Institutes / Research Organization / Field work etc.	Unit Tests Max. Marks :-		
21	Ku.Kalyani B. Mude	14570	8		12	20	Kalyani
22	Ku. Komal B. Bhise	14542	8		12	20	Komal
23	Krushna N. Gawande	14550	8		12	20	Krushna
24	Madhav A. Gayakwad	14541	8		10	18	Madhav
25	Ku. Mahekfateema S. Pathan	14488	8		10	18	Mahekfateema
26	Manish N. Chavhan	14494	8		10	18	Manish
27	Manish S. Kadel	14501	8		10	18	Manish
28	Ku. Mavuri S. Rathod	14514	8		10	18	Mavuri
29	Ku. Mavuri S. Warghat	14504	8		12	20	Mavuri
30	Mohandas S. Gajbhare	14506	8		7	15	Mohandas
31	Mohd. Awais Md. A. Nagpure	14478	8		7	15	Mohd. Awais
32	Mohd. Sohel Yusuf Beniwale	14585	8		7	15	Mohd. Sohel
33	Ku. Mohini A. Rathod	14497	8		12	20	Mohini
34	Mukesh R. Pawar	14533	8		10	18	Mukesh
35	Naravan S. Tale	14560	8		10	18	Naravan
36	Ku. Nikita Rude	14502	8		10	18	Nikita
37	Onkar T. Bele	14516	8		7	15	Onkar
38	Paresh R. Jadhav	14564	8		12	20	Paresh
39	Prafulla D. Jadhao	14549	0		0	00	Prafulla
40	Ku. Prajakta S. Chandurkar	14567	8		12	20	Prajakta
Total of (1 to 20)			152		192	344	

Name & Signature of Teacher
1
2

Date :

Note : This sheet shall be displayed on the notice Board before three weeks of commencement of the theory examination of that semester.
Sant Gadge Baba Amravati University, Amravati.
Consolidated Record of Internal Assessment Marks.

Verified Principal
Principal,

Head
H.O.D.

Department Of Botany
B.B.Arts, N.B.Commerce & B.P.Science
College, Digras Dist. Varanasi.

Name of College : B.B.Arts, N.B.Commerce & B.P.Science College,
Subject : BOTANY

Class : B.Sc. I (Sem - II)

Appendix - V

Paper (with title) :Morphology,Gymno:
Paleobotanyand Utilization of Plants
Designation :Associate Professor

Name : DR.M.M.DHORE

Sr.No.	Name of Student	Marks awarded				Total Max. Marks : - 10 / 15 / 20'	Signature
		Assignment / Project Assignment Max. Marks :-	Seminar / Group Discussion Max. Marks :-	Study tour / Industrial visit / Visit to Education Institutes / Research Organization / Field work etc.	Unit Tests Max. Marks :-		
41	Ku. Prachi B. Dhotre	14482	8	-	12	20	<i>[Signature]</i>
42	Ku. Pranali R. Alone	14525	8	-	10	18	<i>[Signature]</i>
43	Ku. Pranali R. Sapre	14574	8	-	10	18	<i>[Signature]</i>
44	Prathmesh V.Sable	14555	8	-	10	18	<i>[Signature]</i>
45	Ku.Pooja B.Jadhao	14527	8	-	12	20	<i>[Signature]</i>
46	Pravin G.Ade	14518	8	-	10	18	<i>[Signature]</i>
47	Prem A. Rathod	14540	8	-	12	20	<i>[Signature]</i>
48	Ku. Ranu Mahek Jawed Mohd.	14515	8	-	12	20	<i>[Signature]</i>
49	Ku.Reshma A. Rathod	14526	8	-	10	18	<i>[Signature]</i>
50	Rittik G. Ghawat	14465	8	-	10	18	<i>[Signature]</i>
51	Rohan D. Rathod	14487	8	-	10	18	<i>[Signature]</i>
52	Rushda Uruj Md. Farooque	14520	8	-	10	18	<i>[Signature]</i>
53	Ku.Sakshi L. Kannawar	14556	8	-	12	20	<i>[Signature]</i>
54	Ku. Saloni Y. Kothekar	14583	8	-	12	20	<i>[Signature]</i>
55	Sangam S. Khandare	14476	0	-	00	00	<i>[Signature]</i>
56	Ku. Sangita D. Lokhande	14561	8	-	10	18	<i>[Signature]</i>
57	Ku. Sangita B. Meshram	14588	8	-	12	20	<i>[Signature]</i>
58	Ku. Sanjana D. Shikhare	14553	8	-	12	20	<i>[Signature]</i>
59	Saurabha R. Age	14529	8	-	7	15	<i>[Signature]</i>
60	Ku. Seema S. Rathod	14543	8	-	7	15	<i>[Signature]</i>
Total of (1 to 20)		152			200	352	<i>[Signature]</i>

Name & Signature of Teacher

1

2

Date :

Note : This sheet shall be displayed on the notice Board before three weeks of commencement of the theory examination of that semester.

Sant Gadge Baba Amravati University, Amravati.
Consolidated Record of Internal Assessment Marks.

Verified Principal

B.B.Arts, N.B. Commerce &
B.P.Science College, Digras

H.O.D.
Head

Department Of Botany
B.Arts, N.B.Commerce & B.P.Science
College, Digras Dist. Yavatmal

Name of College : B.B.Arts, N.B.Commerce & B.P.Science College,
Subject : BOTANY

Class : B.Sc. I (Sem - II)

Appendix - V

Paper (with title) :Morphology,Gymno:
Paleobotanyand Utilization of Plants
Designation :Associate Professor

Name : DR.M.M.DHORE

Sr.No.	Name of Student	Marks awarded		Seminar / Group Discussion Max. Marks :-	Study tour / Industrial visit / Visit to Education Institutes / Research Organization / Field work etc.	Unit Tests Max. Marks :-	Total	Signature
		Assignment / Project Assignment	Max. Marks :-					
61	Ku. Shejal S. Pawar	14522	8			12	20	<i>Shejal</i>
62	Ku.Shivani S. Rathod	14470	8			10	18	<i>Rathod</i>
63	Ku.Shivani V. Raut	14527	8			7	15	<i>Raut</i>
64	Ku. Shradhha N. Aswar	14576	8			12	20	<i>Aswar</i>
65	Ku. Shweta D. Kewate	14503	8			10	18	<i>Kewate</i>
66	Ku. Sneha M. Chore	14591	8			12	20	<i>Chore</i>
67	Ku. Sukanya S. Chavhan	14563	8			12	20	<i>Chavhan</i>
68	Syed Saquib Sayed Gaffur	14562	8			12	20	<i>Gaffur</i>
69	Suresh S. Runwal	14565	8			10	18	<i>Runwal</i>
70	Tushar A.Pawar	14531	8			10	18	<i>Pawar</i>
71	Ku.Vaishnavi S. Misal	14467	8			7	15	<i>Misal</i>
72	Vishal W. Shelke	14511	8			7	15	<i>Shelke</i>
73	Zuber Wahab Quareshi	14534	8			10	18	<i>Quareshi</i>
Total of (1 to 20)		104				131	235	

Name & Signature of Teacher
1
2

Date :

Note : This sheet shall be displayed on the notice Board before three weeks of commencement of the theory examination of that semester.

M. G. Gawde
Verified Principal
Principal,

B.B.Arts, N.B. Commerce &
B.P. Science College, Yavatmal.

M. M. Dhore
H.O.D.
Head

Department Of Botany
B.B.Arts,N.B.Commerce & B.P.Science
College,Digras Dist.Yavatmal.