

**Syllabus of B.Sc. (Medical)**

**w.e.f. July 2015**

**(3<sup>rd</sup> Semester)**

**BOTANY**

**Diversity & Systematics of Seed Plants-I**

**Paper Code: BOT-201A**

**L – T – P**

**3 – – –**

**Total Credits: 02**

**Total Marks: 50**

**External Marks: 40**

**Internal Marks: 10**

**Paper I (Theory) - Diversity & Systematics of Seed Plants-I**  
**BOT-201**

**Note-** Attempt five questions in all, selecting one question from each unit. Question Number 1 is compulsory (short answer type). Nine questions are to be set in total Spread over the entire syllabus. All questions carry equal marks.

**Unit-I**

Characteristics of seed plants; evolution of seed habit. Seed plants with (angiosperms) & without (gymnosperms) fruits. Evolution & diversity of gymnosperms, general features of gymnosperms.

**Unit- II**

Distribution and economic importance of Gymnosperms. Classification of gymnosperms, fossilization process & fossil gymnosperms.

**Unit-III**

Fossil gymnosperms:-*Lyginopteris, Glossopteris, Williamsonia, Medullosa, Cycadeoidea (Bennettites), Cordaites.*

Morphology of vegetative & reproductive parts:- Anatomy of root, stem & leaf reproduction and life cycle of *Cycas*.

**Unit-IV**

Morphology of vegetative & reproductive parts: - Anatomy of root, stem & leaf reproduction and life cycle of:-

*Pinus*

*Ephedra.*

## Syllabus of B.Sc. (Medical)

w.e.f. July 2015

(3<sup>rd</sup> Semester)

BOTANY

Plants Anatomy

Paper Code: BOT-201B

L – T – P

3 – – –

Total Credits: 02

Total Marks: 50

External Marks: 40

Internal Marks: 10

Note- Attempt five questions in all, selecting one question from each unit. Question Number 1 is compulsory (short answer type). Nine questions are to be set in total Spread over the entire syllabus. All questions carry equal marks.

### Unit-I

Diversity in plant forms in annuals, biennials and perennials, Body parts of Flowering plant and Modular growth.

**Tissues:** Types of tissues in flowering plants. Cambium & its functions.

### Unit –II

**The Shoot System:** The shoot apical meristem & its histological organization; Vascularisation of Primary shoot in monocotyledons and dicotyledons. Canopy architecture; Secondary growth/ formation of secondary xylem and phloem, Secondary growth in extraxylary region/ Periderm. A general account of wood structure and its characteristics. Anomalous Secondary growth in *Boerhaavia*, *Mirabilis* and *Dracaena*.

### Unit-III

**The Shoot System:** Formation of internodes, Branching pattern, Monopodial & Sympodial growth. Canopy architecture.

**Leaf-** Origin development, arrangement & diversity in size & shape, internal structure in relation to photosynthesis & water loss. Adaptations to water stress; Senescence and abscission.

### Unit- IV

**The Root System-** the root apical meristem; differentiation of Primary & Secondary tissues and their roles; Types of root system. Structural modifications for storage, support, respiration, propagation and perennation, root nodules.

Vegetative propagation and its economic aspects.

**Syllabus of B.Sc. (Medical)**  
**w.e.f. July 2015**  
**(3<sup>rd</sup> Semester)**  
**BOTANY**  
**Practical**

**Paper Code: BOP-201**

**L – T – P**  
**-- -- 4**

**Total Credits: 02**  
**Total Marks: 50**

**External Marks: 40**  
**Internal Marks: 10**

Diversity of seed plants & plant anatomy:-

1. Identification and classification of the specimens from gymnosperms and angiosperms with a note on features for identification. (As per theory syllabus)
2. Permanent and double stained slide preparations of gymnosperms and angiosperms. (As per syllabus)
3. Identification of permanent slides (gymnosperms and angiosperms) giving reasons. (As per theory syllabus)
4. Collection of wild angiosperms from the surrounding areas and gymnosperms from hilly areas and preparation of a field report (Rare plants should not be collected).
5. Note book, Viva-voce.

**Syllabus of B.Sc. (Medical)**  
**w.e.f. July 2015**  
**(4<sup>th</sup> Semester)**  
**BOTANY**

**Paper Code: BOT-202A      Diversity & Systematic of Seed Plant-II**

**L – T – P**  
**3 – – –**

**Total Credits: 02**  
**Total Marks: 50**

**External Marks: 40**  
**Internal Marks: 10**

**Paper I (Theory) - Diversity & Systematic of Seed Plant-II**

**Note- Attempt five questions in all, selecting one question from each unit. Question Number 1 is compulsory (short answer type). Nine questions are to be set in total Spread over the entire syllabus. All questions carry equal marks.**

**Unit-I**

**Taxonomy and Systematic:-** Aims & fundamental components of taxonomy (identification, Classification, Nomenclature, description and Phylogeny), taxonomic literature. Role of chemotaxonomy, cytotoxicity and taxometrics in relation to taxonomy.

**Unit- II**

.Botanical Nomenclature- Principles and rules, Principle of priority, Type concept, taxonomic ranks .Keys of identification of plants- Herbarium, Botanical gardens, Dichotomous keys.

**Unit-III**

**Classification of Angiosperms: -** Salient features of the system proposed by Bentham & Hooker and Engler & Prantle. Principles and basics of phylogenetic classification (APG System) by Takhtajan. Origin of angiosperms and relationship of major groups.

**Diversity of flowering plants** as illustrated by members of the families.  
Ranunculaceae, Brassicaceae, Malvaceae

**Syllabus of B.Sc. (Medical)**

**W.e.f. July 2015  
(4<sup>th</sup> Semester)**

**BOTANY**

**Paper Code: BOT-202B**

**Reproduction & Embryology of Flowering Plants**

**L – T – P**

**3 – – –**

**Total Credits: 02**

**Total Marks: 50**

**External Marks: 40**

**Internal Marks: 10**

**Note- Attempt five questions in all, selecting one question from each unit. Question Number 1 is compulsory (short answer type). Nine questions are to be set in total Spread over the entire syllabus. All questions carry equal marks.**

**Unit –I**

**Flower**

A modified shoot; structure & functions of various floral parts, types of Inflorescence. Structure of Microsporangium and dehiscence mechanism, Microsporogenesis, Pollen grains and its structure, Pollination (Types and Agencies)

**Unit- II**

**Microgametogenesis**

Pollen germination, Development of male Gametophyte; Pollen-Pistil interaction; Self - Incompatibility.

**Unit-III**

**Megasporogenesis and Megagametogenesis**

Structure of Megasporangium (Ovule); Types of ovule; megasporogenesis ;  
Development of female gametophyte & its Types (Mono, Bi & tetrasporic ); Double fertilization;  
**Endosperm** Types and its biological importance.

**Unit- IV**

**Embryogenesis** in Dicot and monocot; Polyembryony  
**Seed & Fruit**-Formation of seed; seed structure; types of seed; germination; ecological; adaptations, dispersal strategies. Formation of fruit & types of fruit.





Solanum

Classification

Common name: Black  
nightshade  
Scientific Name: Solanum  
Nigrum  
Family: Solanaceae  
Class: Magnoliopsida  
Genus: Solanum



### Classification

Scientific name: *Pisum sativum*

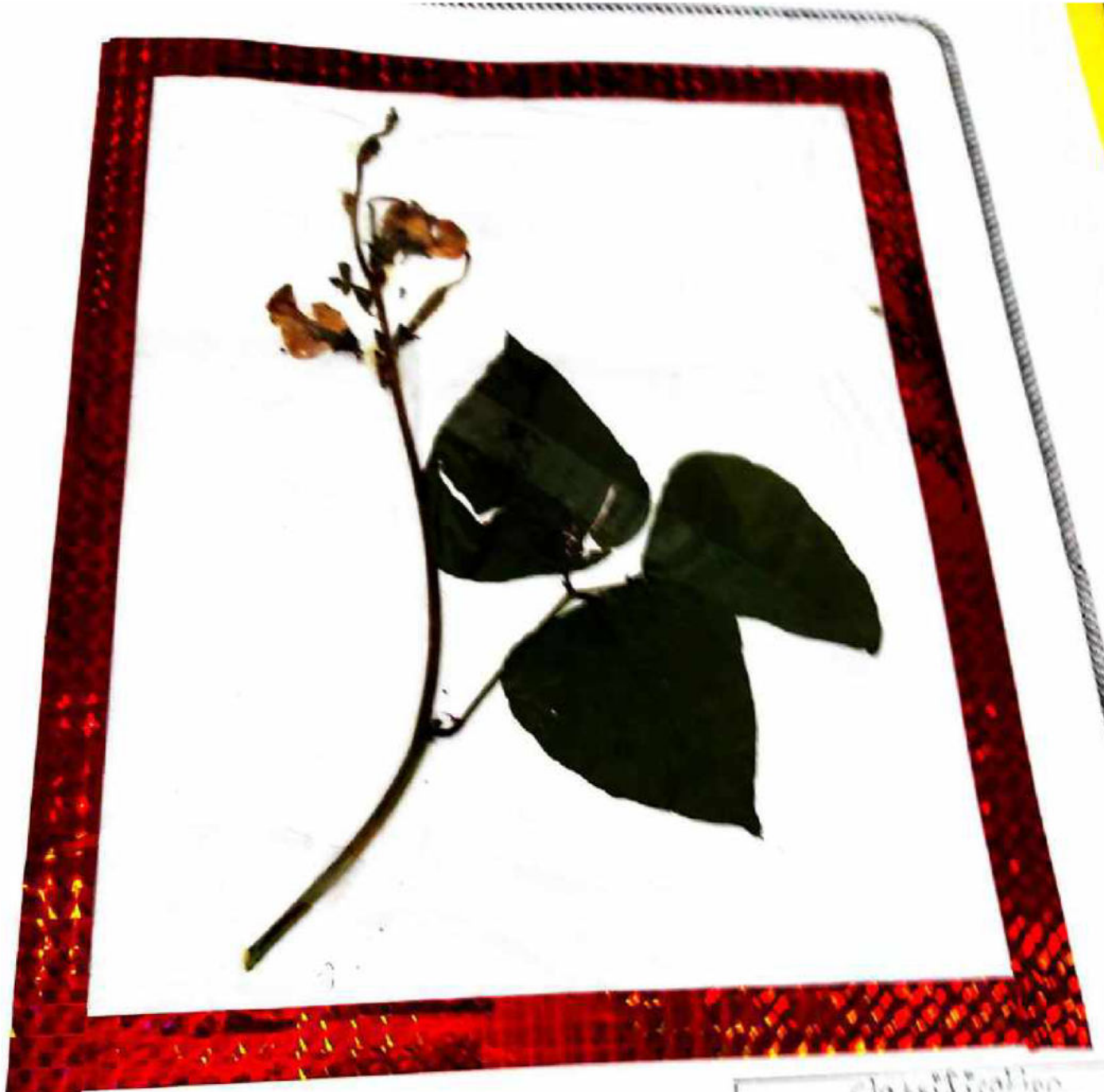
Common name: Pea

Family: Fabaceae

Class: Magnoliopsida

Genus: *Pisum*





Classification

Scientific name: *Phaseolus vulgaris*

Common name: Bean

Family: Fabaceae

Class: Magnoliopsida

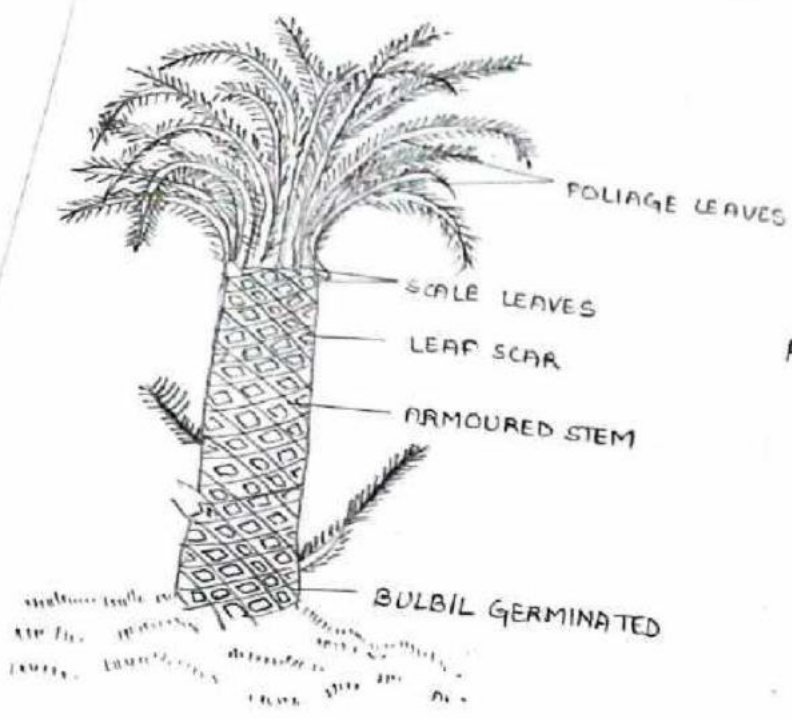




Classification  
Scientific name : *Capsicum  
annuum*  
Common name : Chilli  
Family : Solanaceae  
Order : Solanales  
Genus : *Capsicum* L.



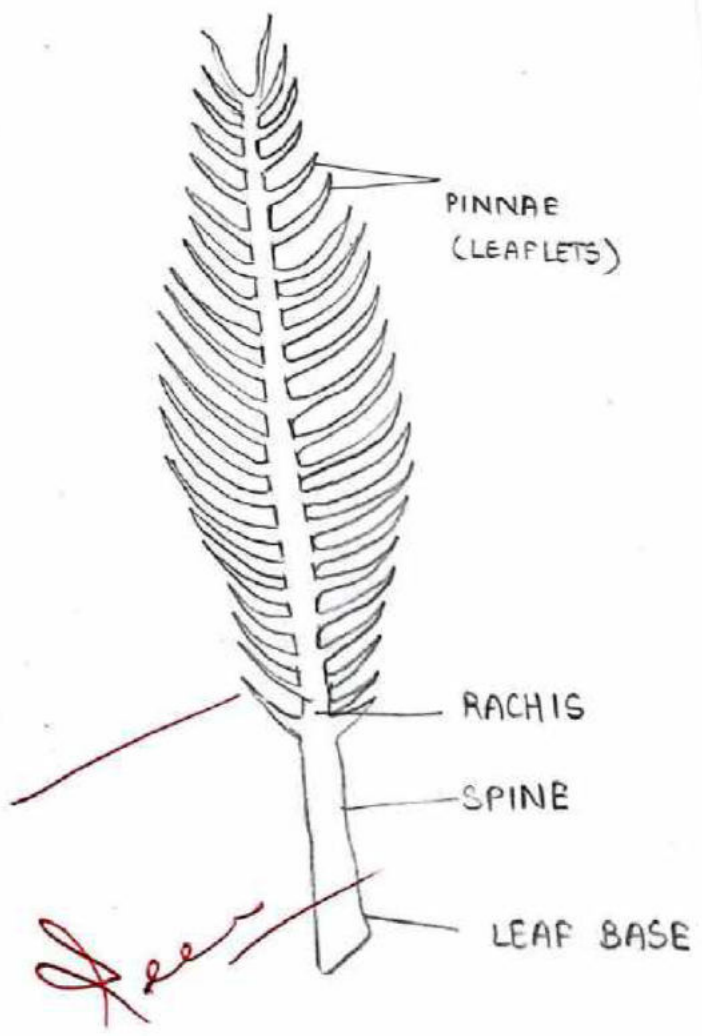
Classification  
Common name: Sauson  
Scientific name: Brassica nigra  
Family: Brassicaceae  
Order: Brassicales  
Genus: Brassica



Kingdom : Plantae  
 Division : Spermatophyta  
 Class : Cycadopsida  
 Order : Cycadales  
 Genus : Cycas

A. Cycas : External features

Cycas : Foliage leaf





Aim: To study the specimen of Cycas plant and foliage leaf.

Theory:

\* Occurrence -

Cycas is the most widely distributed genus of the order Cycadales. The genus includes about 20 species distributed wild or cultivated in tropical and sub-tropical regions of the world and abundant in China, Japan, Australia, Africa, Nepal, Bangladesh, Burma and India.

\* External features -

Cycas is an evergreen, slow-growing small palm like tree with an average height of 3-5 m but in some species it may reach upto 13-20 m or even more. It is commonly found in xerophytic habitat but also grows well under cultivation condition in gardens. Cycas plants are long lived with an average age of several hundred years.

\* Stem -

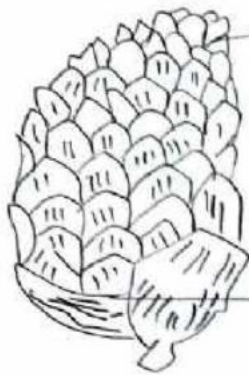
In mature plants, stem becomes woody, erect, thick, club, unbranched and arborescent. Branching may appear on injury at apical meristem.

\* Leaves -

Leaves in Cycas are dimorphic i.e. of 2 types. Foli- scale leaves are arranged in close spirals altern with each other at the apex of stem. A new cluster leaves is produced every year or every second year.

Pinus

Kingdom : Plantae  
Division : Gymnophyta  
Class : Coniferopsida  
Order : Coniferales  
Genus : Pinus



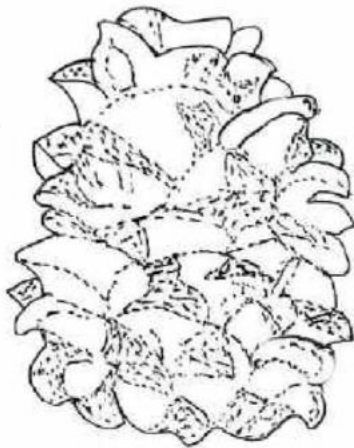
MICROSPOROPHYLLS

SCALE LEAVES

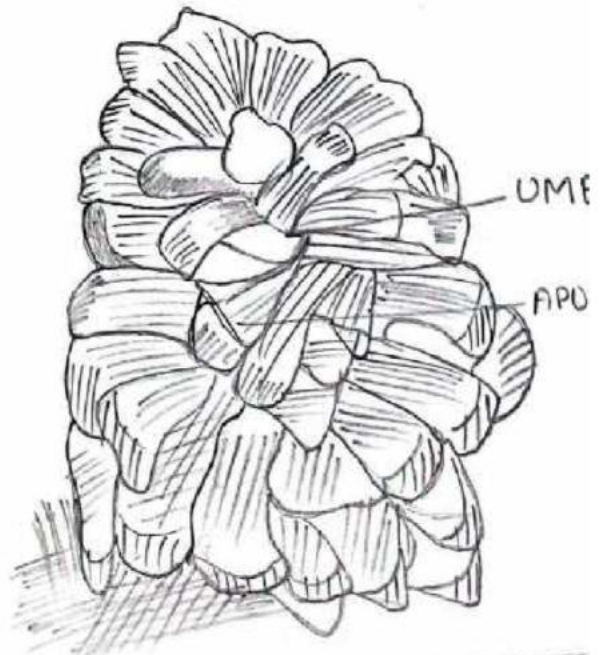
MALE CONE

Female cone

II<sup>nd</sup> YEAR CONE



III<sup>rd</sup> YEAR CONE





Aim: To study the structures of male cone and female cone of Pinus.

Theory:

MALE CONE OR STAMINATE STROBILUS -

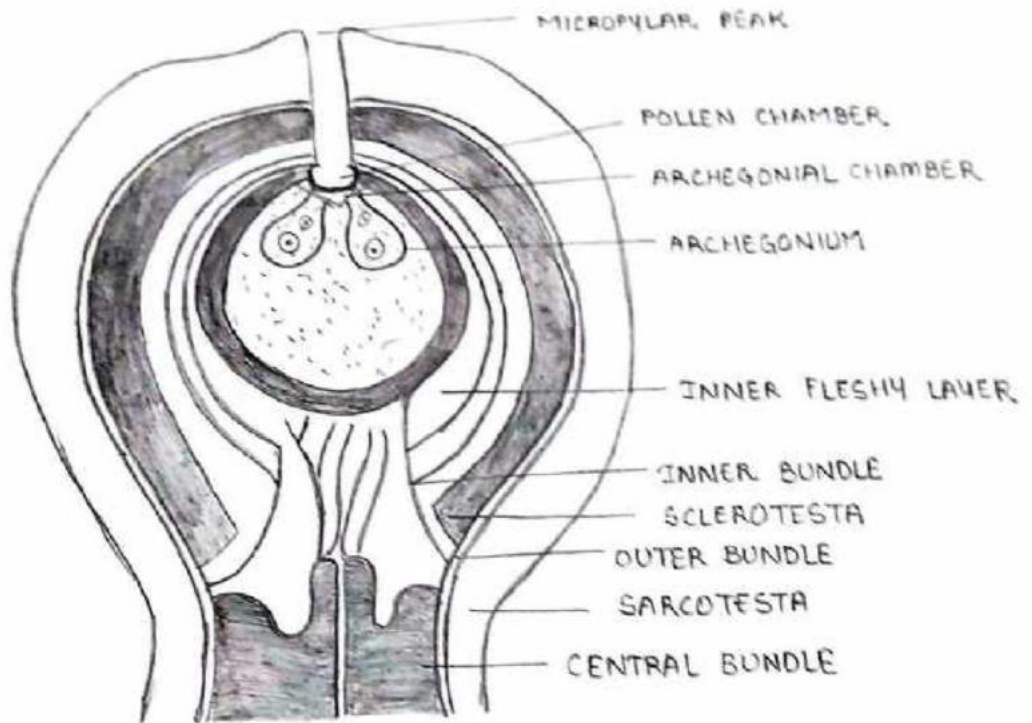
Male cones arise earlier than the female cones and appear in the month of March to April in hills of and in January in plains. They develop in clusters in the axil of scale leaves just behind the apical bud, of the long shoots. They do not affect apical growth of long shoot which continues to grow producing dwarf shoots. Thus male cones arise in the axil of scale leaves in place of dwarf shoots, hence morphologically they are considered equivalent to dwarf shoots.

FEMALE CONE OR OVULATE STROBILUS -

Female cones appear in February in the plains and in March in the hills. They are formed in groups of 1-4 in the axil of scale leaves at the apices of young upper branch long shoots. Female cones take the place of long branches and hence are morphologically similar to them. The female cone takes 3 years to mature and the cones of the successive years can be seen on the lower branches.



CYCAS



V.S. of Mature Ovule



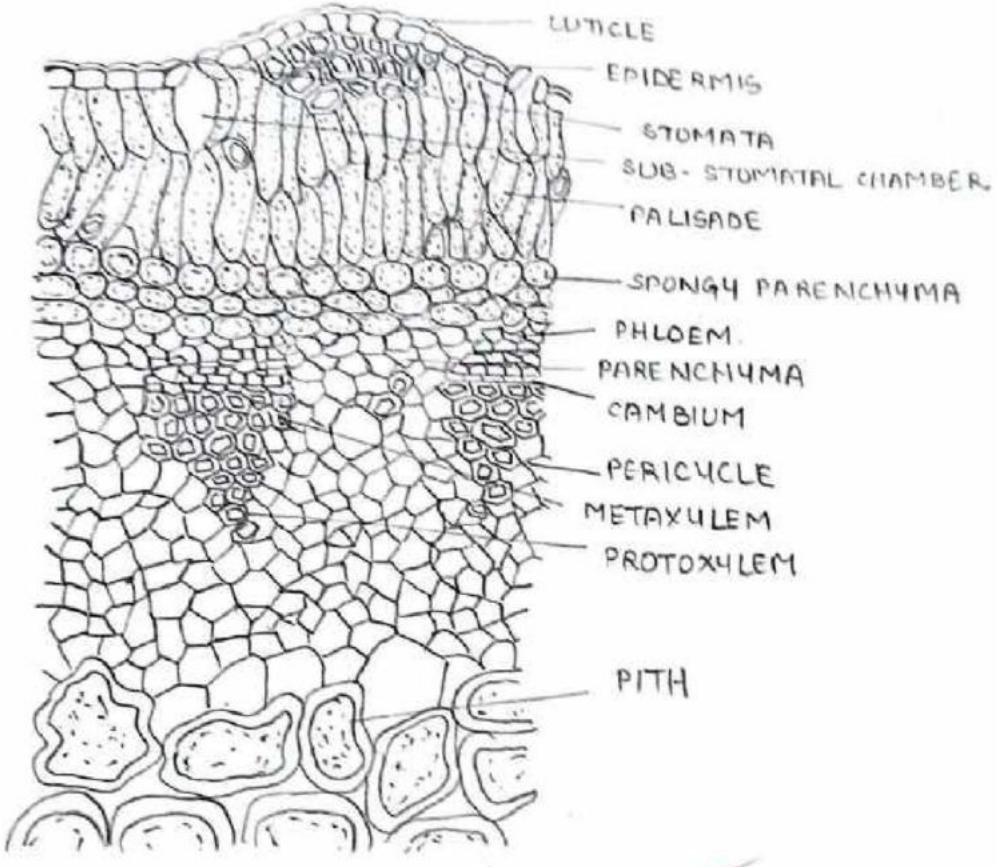
Aim: To study the slide showing v.s. of mature ovule of Cycas under a microscope.

Points of Identification :

- 1) The ovule is orthotropous and unitegmic.
- 2) The single integument is very thick and covers the ovule from all the sides except at mouth-like opening called micropyle.
- 3) Single integument consists of following three layers -
  - a) Outer, green or orange, fleshy layer called sarcotesta.
  - b) Middle, yellow, stony layer called sclerotesta and,
  - c) Inner fleshy layer.
- 4) Integument remains in close association with the nucellus.
- 5) The nucellus develops the nucellar beak in the micropylar region.
- 6) In the nucellar beak, is present a hollow small cavity or chamber called pollen chamber.
- 7) In the centre of the ovule is present a female gametophyte, in which an archegonial chamber develops just below the pollen chamber.
- 8) Two archegonia are present in the female gametophyte near the archegonial chamber.
- 9) Ovule gets vascular supply by the vascular strand in outer and inner fleshy layers. There is no vascular supply for middle stony layer.

Kingdom : Plantae  
 Division : spermatophyta  
 Class : gymnosperms  
 Order : Gnetales  
 Genus : Ephedra

Ephedra



T.S. of Young stem



Aim: To study the slide of T.S. of young stem of *Ephedra* under a microscope.

Points of Identification :

- 1) Outline shows many ridges and grooves.
- 2) Outermost layer is epidermis with a thick layer of cuticle. Continuity of the epidermis is broken by many sunken stomata present in the grooves.
- 3) Below the ridges are present the patches of sclerenchyma.
- 4) Cortex is separated into palisade and spongy parenchyma. Some sclerenchyma patches are also irregularly distributed in the cortex.
- 5) Vascular bundles are arranged in a ring and the stele is ectophloic siphonostele.
- 6) Stele is bounded by a layer of endodermis and unilayered pericycle.
- 7) Each vascular bundle is conjoint, collateral, open and endo.
- 8) In each vascular bundle phloem is present on the outer and xylem on the inner side and both are separated by cambium.
- 9) ~~Parenchymatous~~ pith is present at the centre of the

**Paper 304 – Introduction to Remote Sensing and Field Survey Report  
(Practical)**

**Maximum Marks: 30  
Time: 3 Hours**

**I - Remote Sensing Practical -15 Marks**

**Marks Breakup**

**Exercise = 9**

**Record book = 3**

**Viva-voce = 3**

*Note: There will be four questions in all and candidate has to attempt three exercises.*

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1. Demarcation of Principal Point, Conjugate Principal point and Flight line on Aerial Photographs – 1 Exercise
2. Determination of Scale of Aerial Photographs – 1 Exercise.
3. Interpretation of Single Vertical Photographs – 1 Exercise.
4. Use of Stereoscope and Identification of Features – 1 Exercise.
5. Identification of Features on IRS1D, LISS III imagery ( Mark copy of FCC) -1 Exercise.

**II Socio-economic Survey and Report Writing -15marks.**

**Marks Breakup**

**Field Survey Report = 10marks**

**Viva-voce = 5 marks**

**Suggested Readings:-**

1. John R. Jensen, Remote Sensing of the Environment; An Earth Resource Perspective, Pearson Education, (India Edition) New Delhi, 2009.
2. Lillesand and R.W.Kiefer, Remote Sensing and Image Interpretation, John Wiley and Sons, 1994.

**GOVERNMENT COLLEGE FOR WOMEN, GOHANA (SONIPAT)**

Field Report/Project

Department of geography

(2021-2022)

This is to certify that a field report/ survey was undertaken between 6-8 July, 2021. The topic of the report is socio-economic survey under the supervision of Mr. Dinesh kumar, Mr. Virender and Mrs. Upasna . One copy of survey is attached.

*Vikram*

Head of the Department

(Mr. Vikram Singh)



Principal

(GCW, Gohana)



1.3.2

Govt. College for Women, Gohana (Sonapat)

Field Report /Project

(Department of Geography)

Session : 2020-2021

This is to certify that a field report / survey will be undertaken tentatively between 20May,2021 to 30May,2021. The topic of the report is socio-economic survey.

Vipram  
27/3/21

Incharge sign.

Deptt. of Geography

The List of the participating students is attached:

seen  
Vipram  
27/3/21

# Govt. College for Women, Gohana (Sonepat)

## List of Participating Students in Socio-Economic Survey

(Session ( 2020-21)BA 3<sup>rd</sup> Year

Sr. No.	Class Roll No	Exam Roll No.	Student Name - Father Name
1	2091320310	18573001	AANCHAL-SURENDER
2	2091320093	18573002	AARTI-BALWAN SINGH
3	2091320314	18573003	AARTI-NARESH KUMAR
4	2091320193	18573005	AARTI-SATBIR
5	2091320222	18573008	AARTI RANI-SATYAWAN
6	2091320108	18573009	AASHU-SULTAN
7	2091320400	18573012	ANJALI-SATBIR SINGH
8	2091320462	18573015	ANJALI-SURESH
9	2091320049	18573016	ANJALI-RAKESH
10	2091320273	18573018	ANJALI-ARUN KUMAR
11	2091320072	18573019	ANJALI-PHOOL SINGH
12	2091320004	18573020	ANJALI-BALJEET
13	2091320262	18573021	ANJALI-ANAND SINGH
14	2091320120	18573024	ANJU-SHAMSHER
15	2091320157	18573026	ANKITA-SUMER
16	2091320100	18573027	ANKITA-OMPARKASH
17	2091320211	18573029	ANNU-DILBIR
18	2091320375	18573030	ANNU-ANIL
19	2091320127	18573031	ANNU-SURESH
20	2091320209	18573032	ANNU-ISHWAR SINGH
21	2091320051	18573034	ANNU CHOHAN-NARENDER
22	2091320216	18573035	ANNU KUMARI-MUKESH KUMAR
23	2091320226	18573037	ANSHUL SONI-SUBHASH
24	2091320005	18573038	ARATI-BALRAJ
25	2091320064	18573039	ARJOO-VINOD

26	2091320213	18573041	ASHA-KRISHAN
27	2091320203	18573044	BABITA-RAMNIWAS
28	2091320353	18573045	BABLI-SOMNATH
29	2091320010	18573047	BANITA-RAMESH KUMAR
30	2091320071	18573051	DEEPIKA-JITENDER
31	2091320073	18573052	DIMPAL-DEVKI NANDAN
32	2091320134	18573054	GEETA-RADHE SHYAM
33	2091320087	18573055	GEETA-JAI BHAGWAN
34	2091320105	18573063	JYOTI-GULAB
35	2091320325	18573065	JYOTI-DINESH
36	2091320398	18573066	JYOTI-RAJ SINGH
37	2091320131	18573067	JYOTI-PALE RAM
38	2091320387	18573069	JYOTI-DALBIR
39	2091320126	18573070	JYOTI-PAWAN
40	2091320067	18573071	JYOTI-PREM SINGH
41	2091320103	18573072	JYOTI KAUSHIK-SHRI KRISHAN
42	2091320130	18573073	JYOTI RANI-JAIBHAGWAN
43	2091320466	18573075	KAFFI-KIRANPAL
44	2091320143	18573076	KAJAL-NARENDER
45	2091320457	18573077	KAJAL-DHARAMPAL
46	2091320453	18573078	KAJAL-SURESH KUMAR
47	2091320162	18573079	KAJAL-CHAND
48	2091320112	18573081	KAJAL-SURJEET
49	2091320396	18573083	KAJAL DEVI-SATISH KUMAR
50	2091320119	18573084	KAMNA-SUNIL KUMAR
51	2091320006	18573086	KARUNA-RANDHIR
52	2091320383	18573090	KAVITA DEVI-RAMKISHAN
53	2091320013	18573091	KAZAL-RISHIPAL
54	2091320368	18573092	KHUSHBU-JAI BHAGWAN
55	2091320160	18573095	KIRAN-CHAND
56	2091320452	18573096	KIRANBALA-SATBIR
57	2091320086	18573098	KIRTI-JAGDISH
58	2091320261	18573100	KIRTI-AJIT SINGH
59	2091320305	18573103	KOMAL-RAMESH
60	2091320161	18573105	KOMAL-RAJESH



61	2091320205	18573106	KOMAL RANI-JAGDISH
62	2091320038	18573107	KUSUM-PREM SINGH
63	2091320390	18573110	LALITA-DHARMENDER
64	2091320033	18573111	LAXMI DEVI-SHREE NIWAS
65	2091320158	18573113	MAMTA-KAPTAN
66	2091320224	18573118	MANISHA-SATYWAN
67	2091320227	18573119	MANISHA-MANGAL SAIN
68	2091320153	18573121	MANJU-GULAB SINGH
69	2091320034	18573123	MANJU-SATYWAN
70	2091320015	18573126	MANJU-RAM MEHAR
71	2091320352	18573127	MANJU-SANTRM
72	2091320460	18573131	MEENAKSHI-JAI KISHAN
73	2091320465	18573133	MEENU-DHARAMBIR
74	2091320057	18573134	MEENU-ANIL
75	2091320099	18573139	MONIKA-JAGBIR
76	2091320102	18573140	MONIKA-RANDHIR
77	2091320253	18573141	MONIKA-MAHAVIR
78	2091320376	18573142	MONIKA-CHAND
79	2973120007	18573143	MONIKA-NARESH KUMAR
80	2091320032	18573145	MONIKA-RAJENDER
81	2091320308	18573146	MONIKA-RANBIR
82	2091320464	18573148	MONIKA-SATBIR SINGH
83	2091320223	18573149	MUBI-RAMESH
84	2091320303	18573150	MUKESH-KARTAR
85	2091320094	18573152	MUSKAN-SATISH KUMAR
86	2091320097	18573153	MUSKAN-KAPTAN SINGH
87	2091320231	18573154	NAMITA-DILBAG
88	2091320155	18573156	NANCY-KRISHAN
89	2091320043	18573158	NEETU-NARSI SHARMA
90	2091320125	18573160	NEETU DEVI-SHYAMLAL
91	2091320369	18573162	NEHA-KAPOOR SINGH
92	2091320101	18573164	NEHA-MANOJ
93	2091320041	18573165	NEHA-TEJ SINGH
94	2091320380	18573166	NEHA-RAJESH
95	2091320077	18573168	NIDHI-LALIT

96	18573169	18573169	NIDHI-SATISH
97	2091320467	18573171	NIKITA-MOHAN
98	2091320110	18573172	NIKITA-VIJAY KUMAR
99	2091320319	18573173	NIRMALA DEVI-ZILE SINGH
100	2091320306	18573174	NISHA-MAMAN RAM
101	2091320139	18573175	NISHA-RADHE SHYAM
102	2091320321	18573176	NISHA-WAZIR SINGH
103	2091320372	18573177	NISHA-KRISHAN
104	2091320230	18573180	NITU-DILBAG
105	2091320076	18573182	PAYAL-PARDEEP KR
106	2091320271	18573183	POOJA-UMED SINGH
107	2091320156	18573184	POOJA-RAJBIR
108	2091320088	18573185	POOJA-JAI BHAGWAN
109	2091320417	18573186	POOJA-SATISH
110	2091320037	18573187	POOJA-RAMESH
111	2091320202	18573188	POOJA-SATISH
112	2091320061	18573190	POOJA-RAJESH KUMAR
113	2091320456	18573192	POOJA-JAGDISH
114	2091320096	18573193	POOJA-SHAMSHER SINGH
115	2091320451	18573195	POOJA-SANDEEP
116	2091320133	18573198	POONAM-RAM KARAN
117	2091320081	18573200	PREETI-NARENDER
118	2091320379	18573201	PREETI-DHARMBIR SINGH
119	2091320218	18573202	PREETI-KULDEEP
120	2091320154	18573203	PREETI-PARTAP
121	2091320121	18573204	PREETI-MAHENDER SINGH
122	18573205	18573205	PREETI-DARSHAN
123	2091320092	18573206	PREETI-ARJUN
124	2091320022	18573207	PREETI-SURAJ PAL
125	2091320124	18573208	PREETI-RAMESH
126	2091320084	18573209	PREETI-NAHNU RAM
127	2091320141	18573210	PREETI-RAMPAL
128	2091320017	18573211	PREETI-DILBAG
129	2091320135	18573212	PREETI RANA-RAKESH RANA
130	2091320117	18573213	PREETY-JAIBIR



131	2091320326	18573215	PRIYA-DEVENDER
132	18573218	18573218	PRIYANKA-KRISHAN KUMAR
133	2091320468	18573219	PRIYANKA-SURESH
134	2091320026	18573220	PRIYANKA-ROHTASH
135	2091320356	18573221	PRIYANKA-MUKESH
136	2091320268	18573222	PRIYANKA-SILK RAM
137	2091320355	18573223	PRIYANKA-ISHWAR
138	2091320018	18573227	PUSHPA-ROHTASH
139	2091320215	18573229	RACHANA-SATYAWAN
140	2091320463	18573230	RACHNA-NARENDER
141	2091320113	18573231	RADHA-ANAND
142	2091320316	18573232	RAJNI-PARVINDER
143	2091320059	18573233	RAJANI-SAMSHER
144	2091320031	18573234	RAKHI-SURAJ PARKASH
145	2091320233	18573235	RAMA KUMARI-RAMESH CHAND
146	2091320055	18573236	RANI-RAMNIWAS
147	2091320104	18573238	RAVEENA-RANBIR
148	2091320304	18573240	RAVINA-SANJAY
149	2091320111	18573242	REKHA-RAJ SINGH
150	2091320386	18573243	REKHA-JAI SINGH
151	2091320030	18573245	REKHA RANI-BALWAN SINGH
152	2091320163	18573247	RENU-KRISHAN LAL
153	2091320225	18573248	RENU-VINOD
154	2091320207	18573249	RENU BALA-DHRUV KUMAR
155	2091320328	18573251	RINKU RANI-BALVIR SINGH
156	2091320374	18573252	RITTIKA-KRISHAN
157	2091320254	18573253	RITU-RANDHIR
158	2091320229	18573255	RITU-SATBIR
159	2091320095	18573256	RITU-BIJENDER SINGH
160	2091320036	18573258	RITU DEVI-BALWAN SINGH
161	2091320251	18573259	RIYA-OM PARKASH VASUJA
162	2091320151	18573260	ROZY-JAGBIR
163	2091320416	18573262	RUBY-SANJAY
164	2091320054	18573263	SADHNA-KRISHAN
165	2091320079	18573268	SAPNA-SUBHASH CHANDER



166	2091320012	18573269	SAPNA-RAMESH KUMAR
167	2091320390	18573270	SARITA-JOENDER
168	2091320080	18573273	SAVITA-DHARMPAL
169	2091320023	18573278	SEENA-RAJBIR
170	2091320455	18573279	SHAFALI VERMA-RAJKUMAR VERMA
171	2091320389	18573280	SHALU-JALKARAN
172	2091320159	18573282	SHEETAL-RAMPHAL
173	2091320069	18573283	SHEETAL-JOENDER
174	2091320257	18573286	SHEETAL-DHARMBIR
175	2091320259	18573287	SHEETAL RANI-KHEL SINGH
176	2091320142	18573288	SHIKHA-JAIPAL
177	2091320091	18573289	SHIKHA-SANJAY
178	2091320264	18573291	SHIVANI-KULDEEP KUMAR
179	2091320228	18573292	SHIVANI-SATYANARYAN
180	2091320381	18573294	SHUBHAM-VEDPAL
181	2091320392	18573296	SONIA-PRATAP SINGH
182	2091320106	18573297	SONIA-JAI BHAGWAN
183	2091320458	18573298	SONIA-SATYAVIR SWAMI
184	2091320028	18573299	SONIA-MAHAVIR
185	2091320089	18573302	SONIYA-BACHAN DASS
186	2091320322	18573303	STEENA-BIJENDER
187	2091320052	18573304	SUJATA-SURESH
188	2091320150	18573305	SUMAN-AJMER SINGH
189	2091320164	18573307	SUNITA-AJIT
190	2091320382	18573308	SUPRIYA-SATYAWAN
191	2091320115	18573309	SUSHILA DEVI-JAGDISH
192	2091320397	18573310	SAWATI-YUDHVIR
193	2091320266	18573311	SWATI-LILU
194	2091320116	18573312	SWATI-RAJKUWAR
195	2091320320	18573314	SWEETY-SUBHASH
196	2091320090	18573316	SWEETY-SHAMSHER SINGH
197	2091320318	18573318	TANNU-RAMPAL
198	2091320252	18573319	TANNU-SUNIL KUMAR
199	2091320029	18573320	TANNU-ATTER SINGH
200	2091320060	18573322	VARSHA-ASHOK

201	2091320324	18573323	VARSHA-DILBAG
202	2091320042	18573327	YOGITA-SATBIR
203	2091320439	18573328	AARTI-JAI KARAN
204		18573329	AARUSHI-RAJIV
205	2091320329	18573330	ANISHA-RAMESH
206	2091320442	18573331	ANITA-SURENDER
207	2091320282	18573333	ANJALI-RAMESHWAR
208	2091320346	18573337	ANJALI-SAHAB SINGH
209	2091320281	18573338	ANJALI-RAMPHAL
210	2091320428	18573339	ANJALI-CHAND SINGH
211	2091320276	18573340	ANJU-RAM MEHAR
212	2091320247	18573345	ANNU-GULAB SINGH
213	2091320191	18573346	ANNU DEVI-NARESH
214	2091320437	18573349	ARTI-GULABRAM
215	2091320292	18573350	ARTI-BALKISSAN
216	2091320177	18573351	ARTI DEVI-RANBIR SINGH
217	2091320449	18573353	BHARTI-ANUP
218	2091320244	18573354	BHARTI-RAMESH KUMAR
219	2091320239	18573355	BHAWANA-RAJIV KUMAR
220	2091320436	18573356	CHANCHAL-SATISH KUMAR
221	2091320236	18573358	DEEPIKA-SHAMSHER SINGH
222	2091320430	18573360	HARITA-NAFE SINGH
223	2091320277	18573361	JAYANTI-RANBIR SINGH
224	2091320294	18573363	JYOTI-BALRAJ
225	2091320170	18573364	JYOTI-PARTAP
226		18573367	KAJAL-RANBIR
227	2091320237	18573368	KAJAL-VINOD
228	2091320173	18573369	KAJAL-DARSHAN LAL
229	2091320040	18573370	KANIKA-PAWAN KUMAR
230	2091320278	18573371	KHUSHBOO-MAHAVIR
231	2091320279	18573372	KHUSHBU-SURESH
232	2091320350	18573375	KIRTI-SATYAVIR
233	2091320341	18573376	KOMAL-SURESH KUMAR
234	2091320180	18573378	KOMAL-MUKESH
235	2091320174	18573379	KOMAL-RAMSINGH



236	2091320144	18573385	MAMTA-HARIOM
237	2091320330	18573388	MANJU-BALWAN
238	2091320296	18573390	MAUSAM-RAJESH
239	2091320171	18573395	MONU-ROHTASH
240	2091320427	18573399	NEELAM-MUKESH
241	2091320291	18573400	NEELAM-DALBIR SINGH
242	2091320432	18573401	NEHA-DHARMBIR
243	2091320290	18573403	NIDHI-AJIT
244	2091320445	18573405	NITU-JOGENDER
245	2091320275	18573406	PAMMI-KARAMBIR
246	2091320182	18573408	PARTIMA-HRERAM
247	2091320408	18573411	PINKI-SHRAVAN
248	2091320284	18573412	PINKI-CHAND
249	2091320340	18573414	POOJA-VIKRAM
250	2091320347	18573416	POONAM-SURESH
251	2091320147	18573420	PRIYANKA-HARI RAM
252	2091320298	18573421	PRIYANKA-RAMESH
253	2091320339	18573422	PRIYANKA-MAHAVIR
254	2091320411	18573423	RASHMI-RAMESH
255	2091320349	18573424	RASHMI-DILBAG
256	2091320172	18573425	RASHMI-ANIL
257	2091320235	18573427	RAVINA-KRISHAN LAL
258	2091320299	18573428	REETU-NARESH KUMAR
259	2091320192	18573430	RENU-ANAND
260	2091320297	18573431	RENU-RAMPAL
261	2091320287	18573432	RENU-RAMESH
262	2091320179	18573436	RITU-GULAB SINGH
263	2091320243	18573437	RITU-PHOOL KANWAR
264	2091320146	18573439	RUJA-DALBIR
265	2091320413	18573440	SANDHYA-PAWAN
266	2091320186	18573441	SANGEETA-RAJESH
267	2091320289	18573442	SANJU-JOGENDER
268	2091320145	18573443	SANJU-JAI BHAGWAN
269	2091320241	18573444	SAPNA-RISHIRAM
270	2091320433	18573447	SEEMA-JOHAR ALI

271	2091320371	18573448	SHEETAL-MAHABIR
272	2091320300	18573451	SONIA-UMED SINGH
273	2091320450	18573452	SONIA-SHISHRAM
274	2091320338	18573453	SONIA-RAM NIVASH
275	2091320344	18573455	SONIA RANI-KASHMIRI LAL
276	2091320293	18573457	SUNITI-ROSHAN
277	2091320348	18573460	SWATI-BIJENDER
278	2091320197	18573462	SWATI-PALE RAM
279	2091320333	18573464	SWEETY-GULAB MASIH
280	2091320337	18573465	SWEETY-KARAMBIR
281	2091320199	18573470	TARUNA-DALBIR
282	2091320280	18573472	VICKEY-ISHWAR SINGH
283	2091320331	18573475	VIDHI-SEWA SINGH
284	2071720084	18573548	ANJU RANI-RAMESH



G. C. W. GOHANA

Geography Survey Sheet

NAME = NEETU

CLASS = B.A. 3rd Sem. 6

ROLL NO. = 125

UNI. ROLL NO. = 18573160

# सामाजिक - आर्थिक सर्वेक्षण तथा रिपोर्ट - लैरवन

## परिवार सर्वेक्षण (Household Survey)

### परिचय :-

भारतीय समाज में भिन्न-भिन्न आर्थिक और सामाजिक स्तर के परिवार पाए जाते हैं। इस सर्वेक्षण का उद्देश्य परिवार के आकार व उनके आर्थिक स्तर को बीच संबंध स्थापित करता है। इस उद्देश्य के लिए हम परिवार के सदस्यों की संख्या, उनका आयु वर्ग वैवाहिक स्तर, प्रति व्यक्ति आय, उनके शैक्षिक स्तर की जानकारी प्राप्त करते हैं।

### घरेलू सर्वेक्षण का उद्देश्य :- इस सर्वेक्षण के उद्देश्य

निम्नलिखित हैं :-

- (i) परिवार के आकार की जानकारी,
- (ii) परिवार के सदस्यों के वैवाहिक व शैक्षिक स्तर की जानकारी व उनके व्यवसाय की जानकारी
- (iii) परिवार की आय व उसके स्तर,
- (iv) परिवारों की आय एवं आकार के आधार पर वर्गीकरण इत्यादि।



## • सर्वेक्षण विधि :-

- (i) गाँव या भीड़वले में 20 से 40 परिवारों का चयन इस प्रकार से कर लिया जाए कि उसमें सभी सदस्यों और प्रत्येक आय वर्ग के लोगों को प्रतिनिधित्व मिल सके।
- (ii) परिवारों के संबंध में सूचनाएँ की प्राप्त करने के लिए एक प्रश्नावली तैयार करें।
- (iii) सर्वेक्षण करने के लिए उस गाँव या भीड़वले का मानचित्र या स्कैच तैयार करें।

Table No. 1

## परिवारों की विभिन्न आय

मासिक आय वर्ग	परिवारों की संख्या	विभिन्न आय वर्गों में परिवार की प्रतिशतता
5000 से 10,000	5	25%
10001 से 20,000	8	40%
20,001 से 30,000	2	10%
30,001 से 40,000	1	5%
40,001 से 50,000	2	10%
50,000 से ऊपर	2	10%

उपरोक्त तालिका में 20 परिवारों की मासिक आय वर्ग को दर्शाया गया है। इस सर्वेक्षण से हम पता चलता है कि किसी परिवार की मासिक आय कितनी है। किसी भी परिवार की मासिक आय उनके व्यवसाय पर निर्भर करती है।

Table No. 2

शिक्षा - स्तर

शिक्षा का स्तर	व्यक्तियों की संख्या	परिवारों की संख्या	व्यक्तियों की संख्या का %	परिवारों की संख्या का %
अनपढ़ व्यक्ति	9	5	11.25%	10%
प्राथमरी कक्षा	8	7	10%	11.66%
मिडिल कक्षा	9	8	11.25%	13.33%
दसवी कक्षा	7	6	8.75%	10%
सीनियर सेकंडरी कक्षा	21	14	26.25%	28.33%
ग्रेजुएट शिक्षा	16	10	20%	16.66%
पॉस्ट ग्रेजुएट	10	8	12.5%	13.33%
तकनीकी शिक्षा	1	1	1.25%	1.66%
	कुल = 80	कुल = 60		

प्रस्तुत तालिका में 20 परिवारों के शिक्षा-स्तर को दर्शाया गया है। प्रस्तुत तालिका को तैयार करने के लिए 20 परिवारों का सर्वे किया गया है। और उन आंकड़ों की सहायता से शिक्षा-स्तर की तालिका तैयार की गई, जिससे पता चलता है कि अनपढ़, मैट्रिक पास की संख्या कितनी है। जिससे हम यह भी जान सकते हैं कि हमारे आस-पास के समाज का शिक्षा-स्तर कैसा है।



Table No. 3

## व्यवसाय के प्रकार

प्रकार	व्यक्तियों की संख्या	व्यक्तियों की संख्या का %
मजदूरी		32%
कृषि	8	20%
व्यापार	5	16%
उद्योग	4	12%
पेशावर सेवा	3	20%
	कुल = 25	

प्रस्तुत तालिका में दर्शाया गया है कि निम्न-निम्न परिवारों के सदस्य निम्न-9 व्यवसायों में संलग्न हैं। सबसे अधिक व्यक्तियों की संख्या मजदूरी व्यवसाय में संलग्न है। और सबसे कम उद्योग-धंधों में संलग्न है।

Table No. 4

परिवारों में महिलाओं और पुरुषों का अनुपात

कुल परिवारों की संख्या	कुल महिला	कुल पुरुष	महिलाओं व पुरुषों का अनुपात
20	40	47	

प्रस्तुत तालिका में 20 परिवारों में महिला व पुरुषों के अनुपात को दर्शाया गया है। 20 परिवारों के सर्वेक्षण से ही हमें पता चलता है कि किस परिवार में कितनी महिला और पुरुष हैं, उन्हीं आंकड़ों के आधार पर इस तालिका को तैयार किया गया है। इस तालिका से पता चलता है कि पुरुषों की संख्या महिलाओं से ज़्यादा है।

Table No. 5

विभिन्न आयु-वर्ग में व्यक्तियों  
की संख्या

आयु वर्ग	व्यक्तियों की संख्या	व्यक्तियों की संख्या का %
10 से कम	5	6.17%
11-20	25	28.73%
21-30	14	16.09%
31-40	9	0.001%
41-50	16	18.39%
51-60	5	6.17%
61-70	8	9.19%
70 से अधिक	5 कुल = 87	5.74%

पुस्तक तालिका में 20 परिवारों के सभी संसद्यों की उनकी आयु-वर्ग के अनुसार दर्शाया गया है।





field visit Date class - B.Sc. II  
 session - 2020-21

Sr. No.	Name of student	Roll No.	Phone no.	Signature
1.	Isha.	3049920001		Isha
2.	Briyanka	3049920002	8307770847	Briyanka
3.	Jyoti	3049920003	9729999848	Jyoti Romi
4.	Sweta	3049920004	9306146676	Sweta
5.	Sheetal	3049920005	7015449475	Sheetal
6.	Briyanka	3049920006	9813086060	Briyanka
7.	Vasudha	3049920007	9034904234	Vasudha
8.	Himanshu	3049920008	8168388558	Himanshu
9.	Annu	3049920009	9306014826	Annu
10.	Tammana	3049920010	9350500477	Tamanna
11.	Simran	3049920012	9416487853	Simran
12.	Sakshi	3049920013	8059119688	Sakshi
13.	Kiran	3049920015	9817731439	Kiran
14.	Varsha	3049920016	9813991649	Varsha
15.	Hema	3049920017	9306463712	Hema
16.	Briyanka	3049920018	9813330951	Briyanka
17.	Diksha	3049920019	8295564383	Diksha
18.	Simran	3049920020	958812587	Simran
19.	Jyoti	3049920022	7015312290	Jyoti
20.	Sushma	3049920023	9350888422	Sushma
21.	Simran	3049920024	9817814587	Simran
22.	Pooja.	3049920025	9416554277	Pooja



23.	Nishu	3049920028		<u>Nishu</u>
24.	Sanju.	3049920030	9350551917	<u>Sanju</u>
25.	Kirti	3049920031	9306004684	<u>Kirti</u>
26.	Anjali	3049920034	7027041157	<u>Anjali</u>
27.	Fareen	3049920036	9991279922	<u>Fareen</u>
28.	Sapna	3049920037	9992575013	<u>Sapna</u>
29.	Meenu.			
30.	Taruna	3049920038	8396082782	<u>Meenu</u>
31.	Seema	3049920040	8901549246	<u>Taruna</u>
32.	Nidhi	3049920041	8178636954	<u>Seema</u>
33.	Aarti	3049920042		<u>Nidhi</u>
34.	Pooja	3049920043	7248158761	<u>Aarti</u>
35.	Bhawna	3049920044	9217338865 9416565043	<u>Pooja</u>
36.	Pooja.	3049920045	8168487099	<u>Bhawna</u>
37.	Manju bala.	3049920046	9817338863	<u>Pooja</u>
38.	Jyoti	3049920048	805974138	<u>Manju</u>
39.	Ashu.	3049920049	9350919886	<u>Jyoti</u>
40.	Briyanka	3049920050	9350919836	<u>Ashu</u>
41.	Ritu	3049920051	903489875	<u>Briyanka</u>
42.	Jyoti	3049920052	9034884005	<u>Ritu</u>
43.	Ritu	3049920053	9050110204	<u>Jyoti</u>
44.	Neha	3049920054	8053360840	<u>Ritu</u>
45.	Sapna	3049920055	8607678094	<u>Neha</u>
46.	Bindu	3049920056	7409897876	<u>Sapna</u>
47.	Pooja	3049920058	8059747767	<u>Bindu</u>
48.	Rita	3049920061	9350337252	<u>Pooja</u>
49.	Anjali	3049920062	8396818308	<u>Rita</u>
		3049920063	9306441453	<u>Anjali</u>



Sakshi  
Mahak  
komal  
Nisha.

3049920064

3049920065

3049920066

3049920067

8685892572

8571910401

9817492661

9350602232

Sakshi  
Mahak  
Komal  
Nisha

52.

53.

54

Govt. College for Women, Uohar Srepat

Field Report / Project  
(Department of Botany)  
Session. (8-9 Jan. 2021)  
2020-21

This is to certify that a field visit was undertaken between 8 January ~~2021~~ to 9 January <sup>2021</sup>. The visit purpose was to collect plants for herbarium preparation for their practical work.

*[Signature]*

Head of Department

*[Signature]*

Principal