

GOVERNMENT COLLEGE SATNALI, MAHENDERGARH

Affiliated to IGU, Meerpur, Rewari & Recognised u/s 2(f) of UGC Act

AISHE CODE: C-49467

Website: http://gcsatnali.ac.in

Phone: 01285-231122(0) E-mail: gcsatnali@yahoo.com

Ref. No. NAAL |SSR | 2021 / 121

Date: 4/7/2021

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

The college affiliated to I.G. University, Meerpur (Rewari), strictly adheres to the guidelines of the University for conducting continuous Internal Evaluation. An academic calendar clearly specifying the date and time of various academic events to take place, is notified before the commencement of the academic session. For assessment and evaluation, the pattern is as follows in both U.G. classes are as follows:

Assessment/Evaluation

Internal Marks	Major Test	Total Marks
20	0.0	
	80	100

Internal Evaluation

Minor Test	Attendance	Assignment	Total
10	05	05	20
		03	20

Some of the sample of Minor Test and Assignments Process followed by the various departments is submitted as under

- 1. CLASS TESTS
- 2. ASSIGNMENTS

Principal College, Satnali (M/Garla)

Government College Satnali

GOVERNMENT COLLEGE SATNALI

ASSIGNMENT OF BOTANY

TOPIC - GIENERAL CHARACTERISTICS OF

BRYOPHYTES AND COMPARISON B/W

MARCHANTIA, ANTHOGEROS, FUNARIA

SESSION - 2019-20

CLASS - B.Sc I (MEDICAL)

ROLL No. - 4705420009

SUBMITTED BY - MAMTA

SUBMITTED TO - MRS. SADHANA YADAV

General Characteristics Of Bsyophytes

the toplants which of

1. Distribution -

Bayophyla is a group of the simplest and the most primitive, non-vascular land plants and includes about 24000 species in 960 genera.

2. Habitat -

They are terrestrial in habitat and usually grow in moist and shady places but require presence of water to complete their life cycle and therefore regarded as amphibians of plant kingdom. However a few grow under diverse habitat such as aquatic submerged, as epiphytes on tree trunks and branches.

3. Gametophyte-

It is the most conspicuous nutsitionally independent phase of plant sepsesenting dominant haploid phase in the life cycle. It produces sex organs and concerns with the sexual sepsoduction.

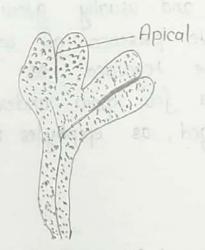
a) Mosphology-

Plant body is either a simple thalloid, growing prostrate on the ground and attached to the latter by delicate unicellular hair like outgrowths called thizoids eg. Marchantia, Riccia while in others it is like rootless leafy whoots e.g. Parella or erect leafy plants with in like central axis, leaf like appendages and roots like thizoids eg Funatio, Polytichum.

b) Internal structure-

The vascular tissue he xylem or phloem is completely absent. However in few massess like Polytrichum, xylem like hydroides and phloem like leptolds which conduct water and food tespectively have been tepotted.

The plants are green, passess chloroplast and hence are autotrophic in their mode of nutrition. However, a few species are saprophytes and lead a heterotrophic mode of nutrition e.g. Cryptothallus mirobilis, a liverwort.







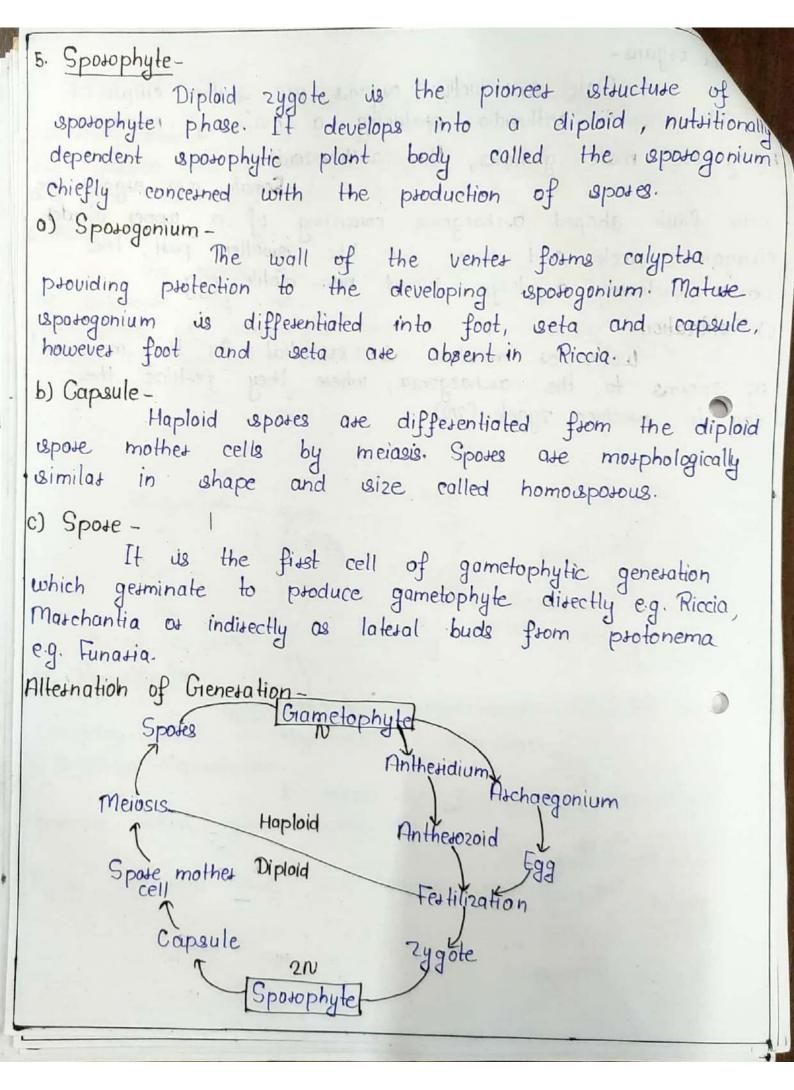
4. Reproduction-Reproduction by asexual spores (meiospores) is completely absent in Bayophytes.

a) Vegetative Reproduction -

It occurs by fragmentation, adventitious branches, tubers, gemma cups etc. Sexual seproduction is

highly obgamous and usex organs are jacketed.

Sex organs -Male reproductive organs are stalked ellipsoidal of club shaped antheridia producing a mass of numerous biflagellate male gametes, the antherozoids. Female usex organs are istalk flask shaped archaegonia consisting of a upper islender elongated neck and lower usac like iswollen part, the venter enclosing a large naked non-motile egg. c) Featilization-Water or moisture is essential for the movement of sperms to the archaegonia, where they fertilize the egg. to produce zygole (2N). - Jacket Androcyte mother Stalk cells 3 Anthertdium Antherozoid -cover cells Neck Ventes canal cells - Egg cell Venter canal cell Aschegonium



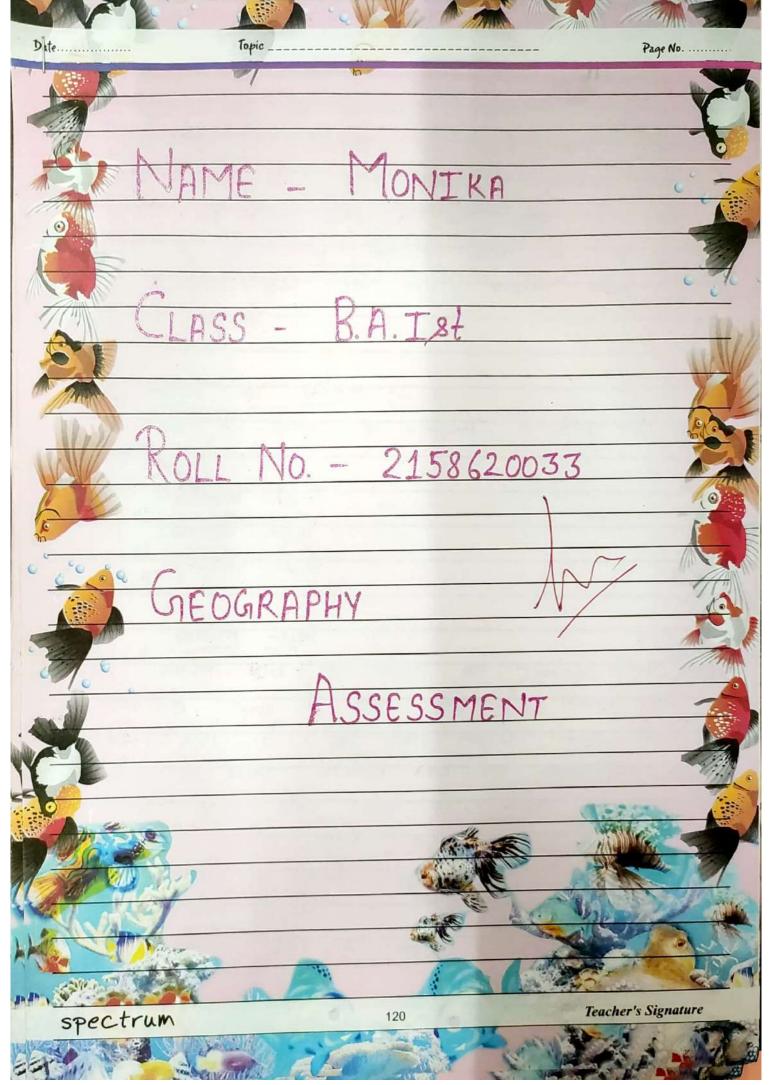
	markers contains more about an old property of a supply of the	
Gompasison	blw Marchantia, Anthocerc	os and Funatia
Marchantia	Anthocetas	Funavoia
in damp shady and moist places.	in damp, whady and most places. The plant grows in cluters.	1. It prefers to grow the lands burnt by fires and moist, whady places. It grows in clease tuffs.
2. The plant body is green, prostate, dichotomously - branched thallus.	2. The plant body is green, prastate, dichotomously branches thallus but due to unequal dichotomy, the thallus become	2. The plant is leafy, green upright, radial in symmetry. Branching is monopodial.
3. Thallus lobes beat distinct middib, which ends in a terminal lobe.		3. Leofy gametophyte is differentiated into exect axis, bearing green flat appendages and thizoids.
4. Upper surface of thallus is marked by thomboidal areas, each with a distinct centre pore. 5. No algae are the in	they are being no thomboidal areas. 5. Small, dark blue green	
the thallus.	spares are seen in the surface view.	Carte Variation land

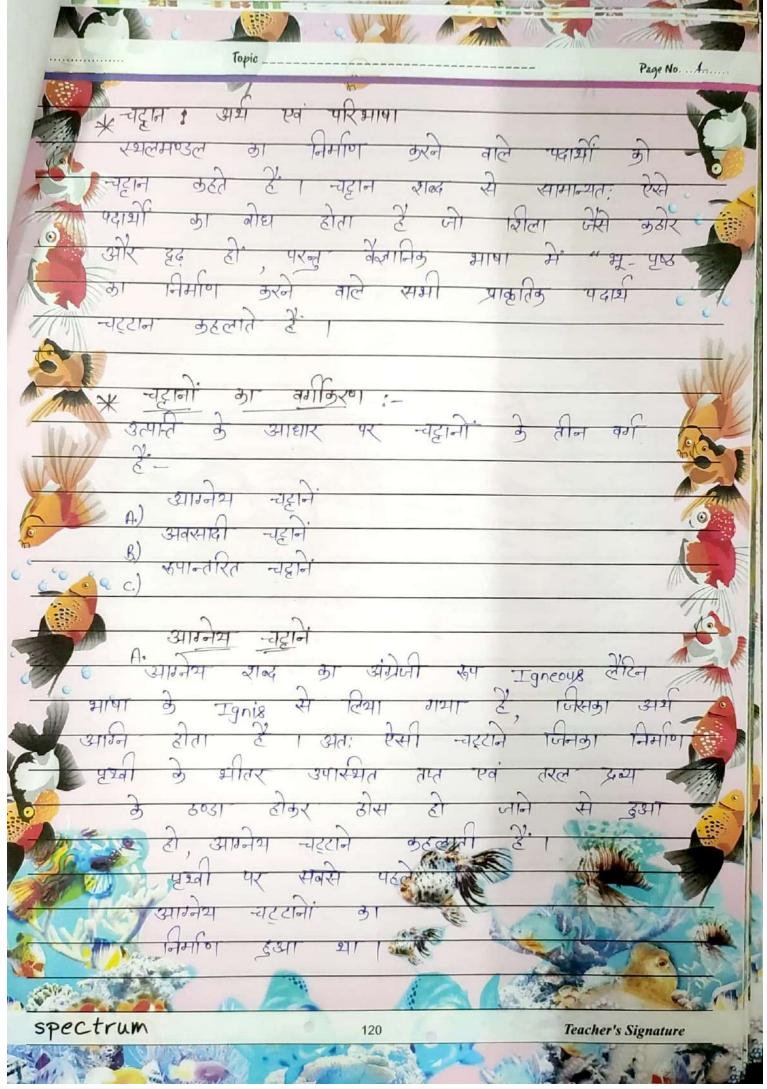
6. Presence of gemma cups 6. No genma cups. 6. No gemma cups. is another distinguishing feature. 7. Only smooth walled thizoids 7. Scales are absent thizoids 7. Both thizoids and scales attsing from the base of the asise from the ventral surface are present that arise from of thallus, along the ventral surface of stem. Istem as these is no the dossivential symmetry. midtib tegion. 18. Mizoids are unicellular, aseploles. Phizoids are unicellular, 8. Rhizoids are unicellular, and unbranched. These ore of aseptale and unbranched. These branched and oblique septa two types - smooth walled and are only of one type i-e and are only of one type smooth walled tubesculated. Anatomy -9. In the leofy whoot axis 9 The thallus is wimple and 9. Internally the thallus us useveral layer thick in the is several layered thick, appenseveral layers thick. middle and gradually tapers dages are thick in the towas ds midsib. margins-10. Gells are differentiated and 10 Cells show no of little 10 Internally mass when whows attanged in two distinct regions, differentiation in the tissue. certain amount of differentiation the upper green photosynthetic All one compactly annaged The cells are assuanged in Jegions and lower storage pasenchyma cells except the three distinct regions Jegion . isusface layer. epidermis, cortex and cylinder. 11/10

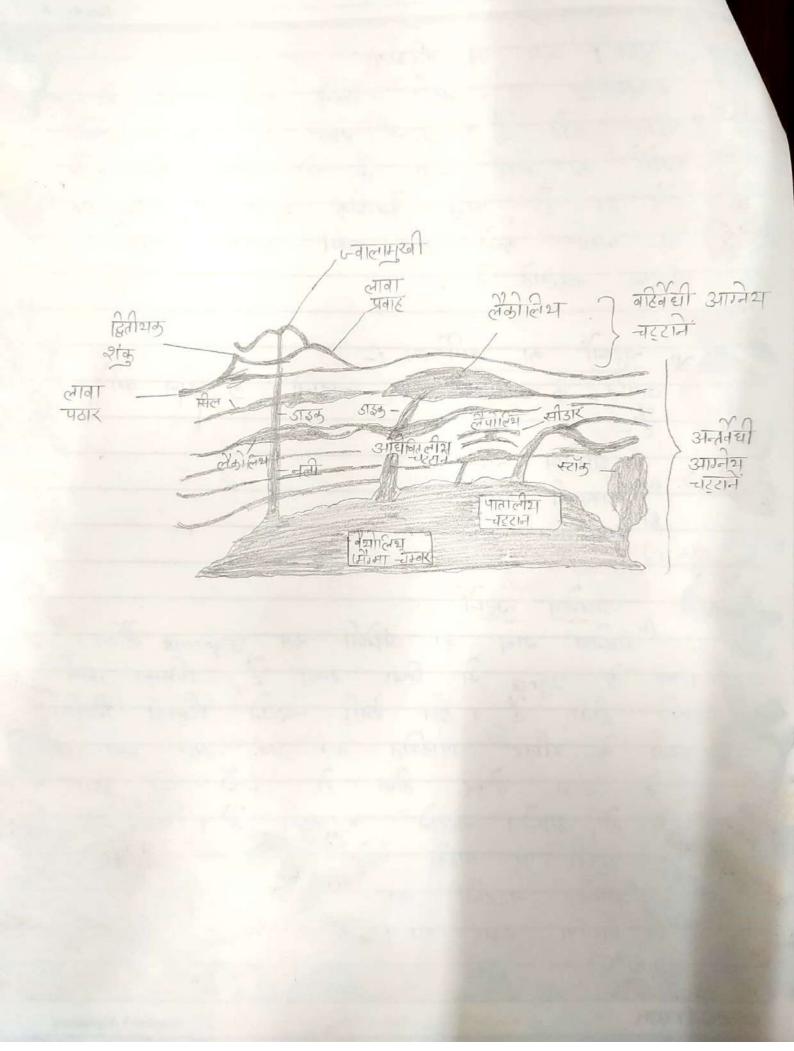
Sex organs um, 11. Both monoecious and dioecious 111. Both monoecious and 11. All species are dioecious species occus. dioecious especies are tht. istaictly. 12. Sex organs occur in clusters 12. Sex organs are borne on 12. Sex organs are embedded at the tips of branches which special upright terminal branch in thallus. No special branch anyway. are not uspecial in of thallus called gametophose. 13. Antheridia occur usingly 13. The antheridia occur at the 13. Sex organs are developed apex of the main whoot of in groups whereas in a line back from the whereas archegonic are bothe atchegonia occut usingly beneath opex in actopetal ordet. at the apex of female the upper uniface of thallus. branch. 14. Sex organs are exogenous 14. The anthesidia ase endo 14. Both are exogenous in in oxigin. genous in origin whereas Osigin. atchegonia ate exogenous. 15. Antheridium us an ovoid 15. Antheridium us a club 15. Anthesidium is a body supported on a multi-shaped orange coloured body shaped orange colouted body cellulat and shoot stalk. taised on a long and based on a short and multicellulas stalk. multicellulas stalk. 16. Aschegonia are flask shape 16. In structure archegonium 16. Aschegonium is typically different from bryophytesflask ishaped. passessing? (i) A short but distinct stalk-(1) It has no stalk. (i) long and stout stalk. (ii) Long neck with greater no. (ii) Embedded in the tissue (ii) Project over the female of heck canal cell. of thallus. branch'

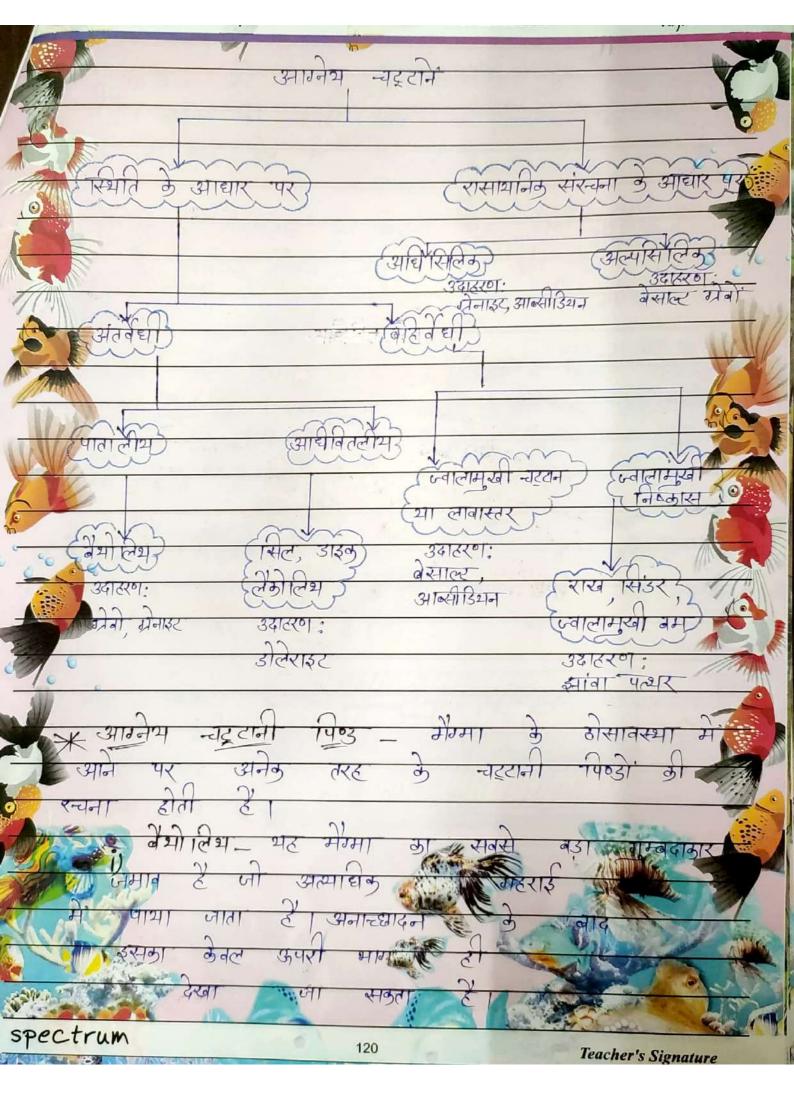
two layers US 17. Venlet wall 17. Venter consists of a layer ventes wall 17. These is no in thickness. of sterile cells. of jacket cells. Spotophyte-1. It is for more elaborated is larger and more 18. Capsule is not much both externally and internally. complex internally than elaborated. Maschantia. 2. It is differentiated into 2. It is differentiated into foot, a long and slendes 12. It is differentiated into a an intermediate zone foot short seto and capsula foot seta and 8 capsule. and a capsule. Seta is 3. It is subsounded and the 3. Asises in cluster from the 3. It hongs freely from the distal end of female branch dossal surface of the thallus Prolective sheaths are locking. the female under surface of isustained at the receptacle surrounded 64 base by a tubulas involucie. the perigynium and the beat 4. Capsule is perichaetium. 4. Capsule is long, islender, that is flat ishaped body 4. Capsule is an oval yellow cylinderical body of uniform elaborate than any other body concerns with both thickness. It is meant for production and dispersal of byophyte. It is specialized both production and dispersal ispores. of espates. Its wall help 1) Basal apophysis for in photosynthesisphotosynthesis. (1) Middle thera for space 1st production.

'Uehiscence-	6. Dehiscence is very irregular. Gapsule isplits along 1-4 lines	endothecium. 6. The annulus cells petish
7. The spotophyte is totally	and it is able to form carbohydrate. 8. Sporophyte is comparatively	7. Spotophyte is semi parasite on the gametophyte for the supply of water and minerals. 8. Spotophyte dies with the complete shedding of spotes successive showers.

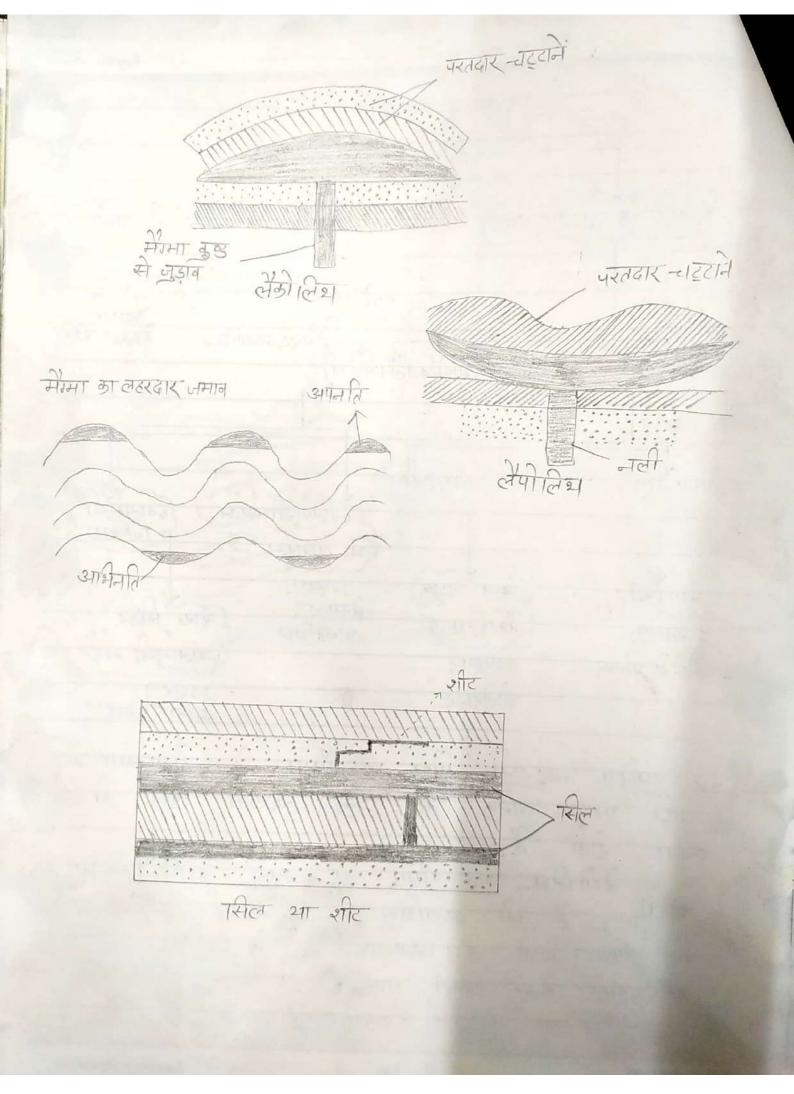


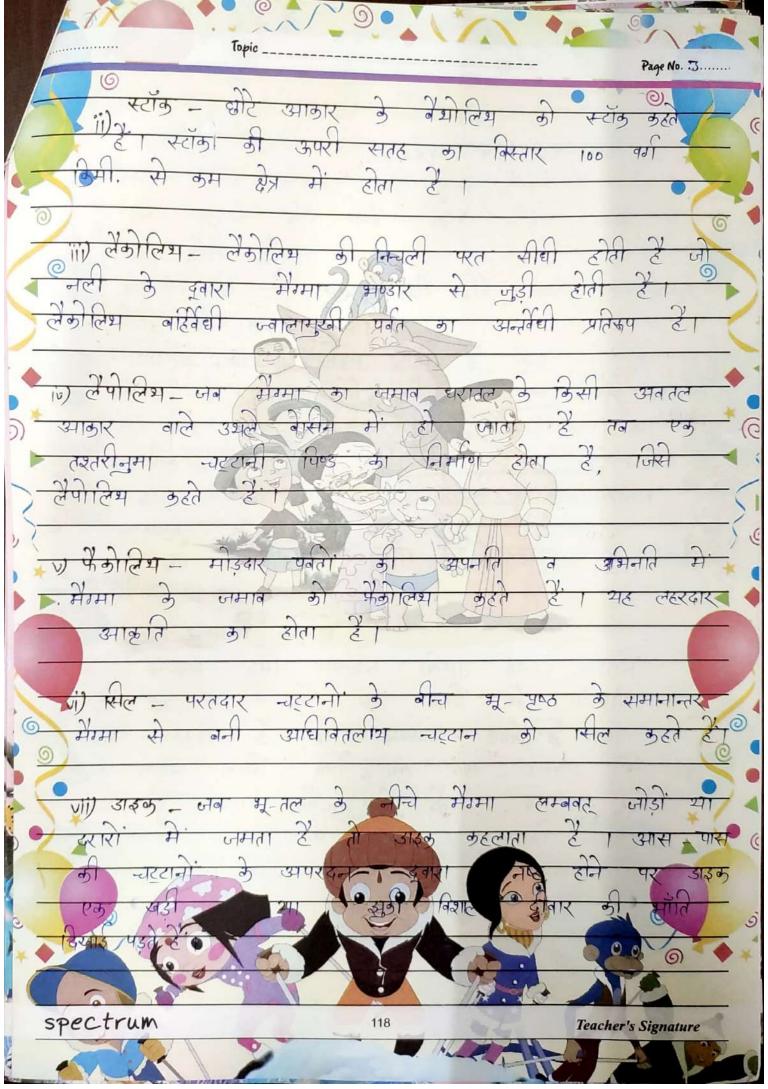


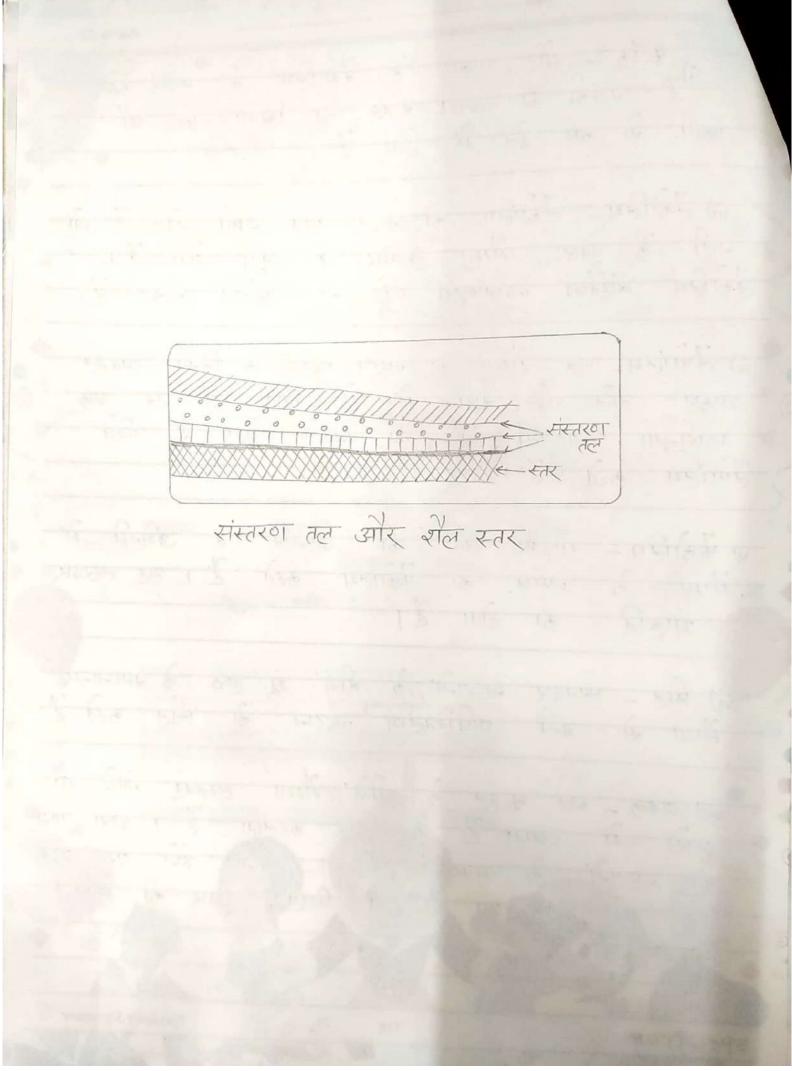


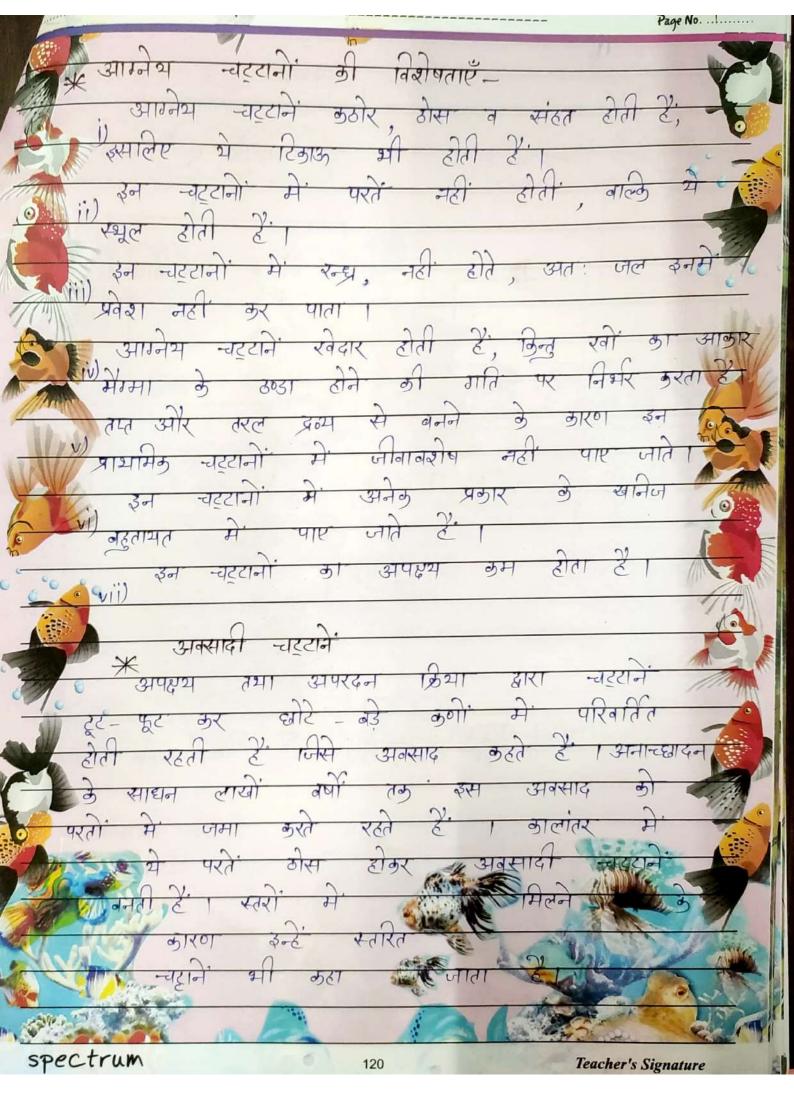


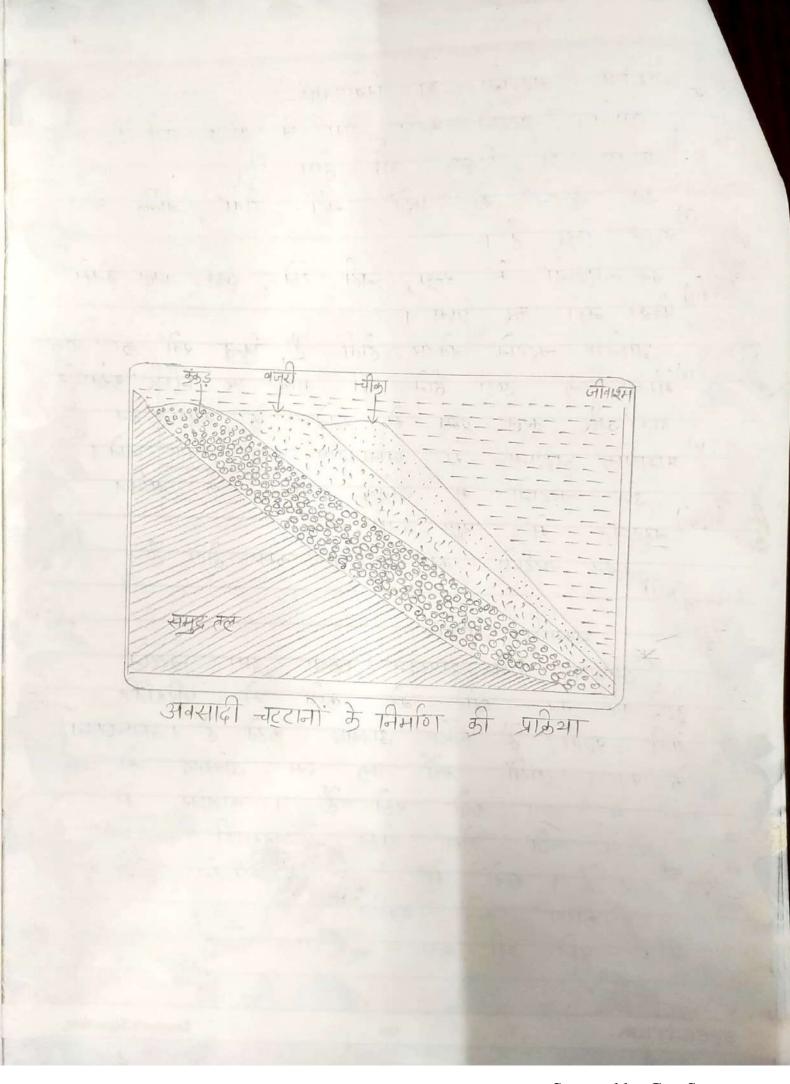
Scanned by CamScanner





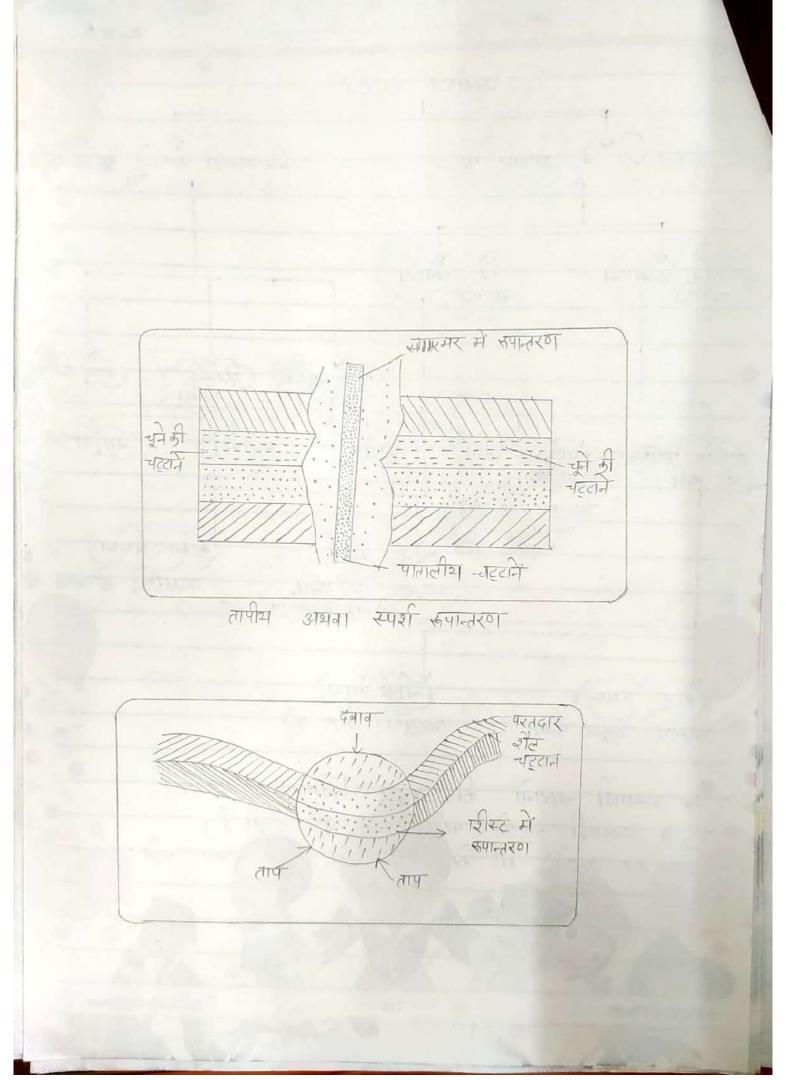


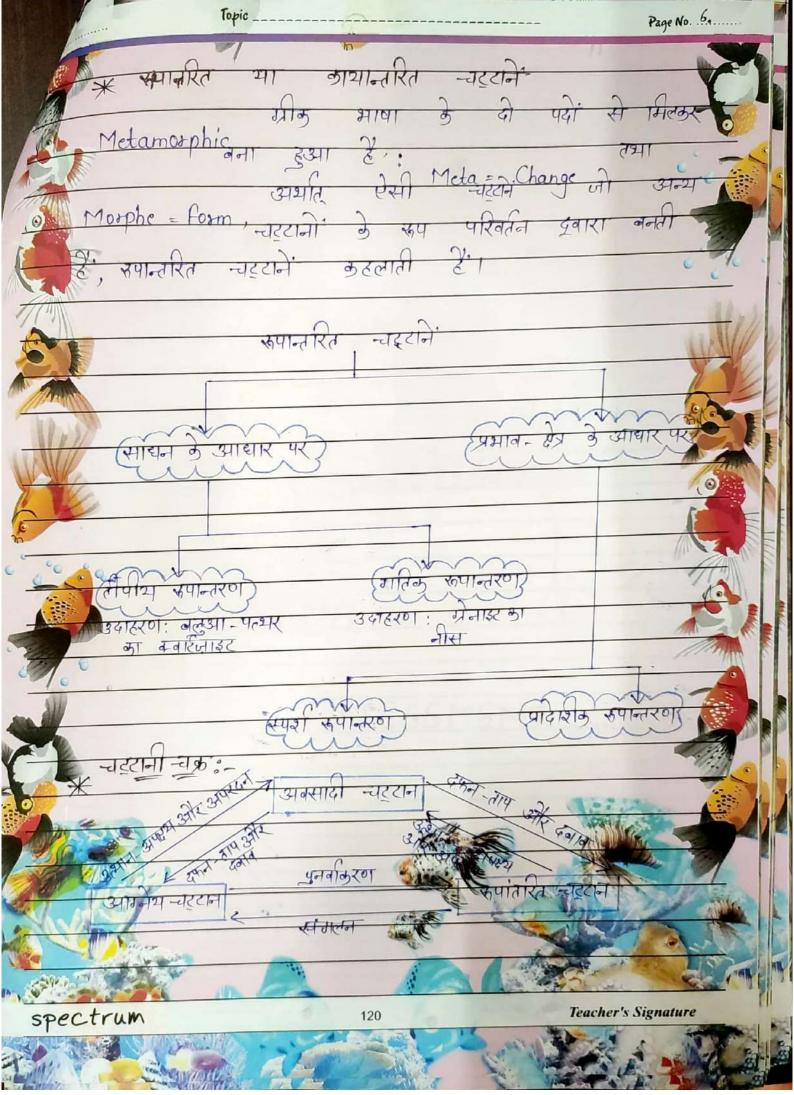




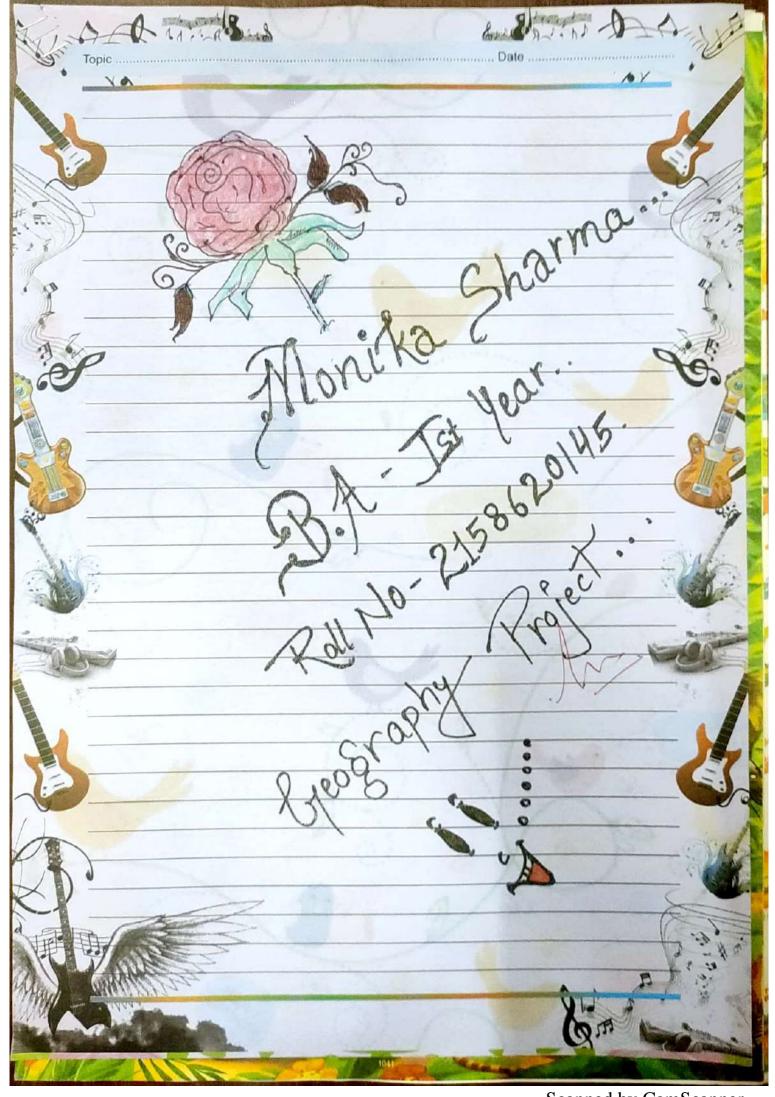


Scanned by CamScanner

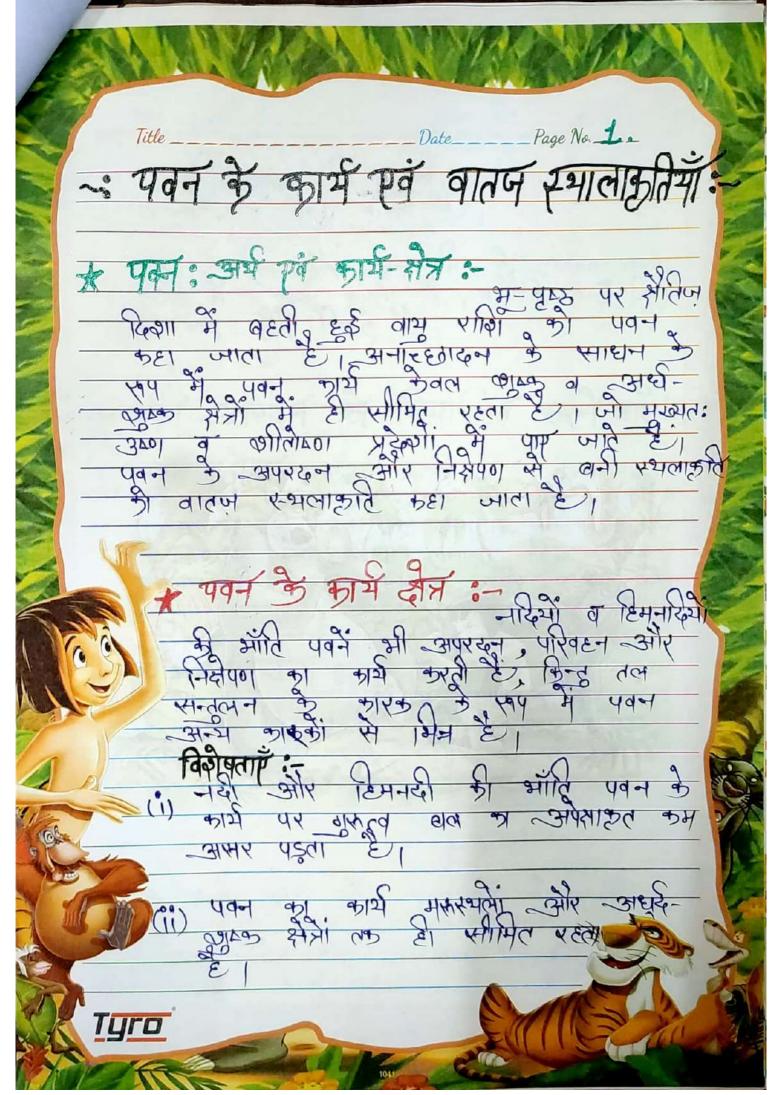




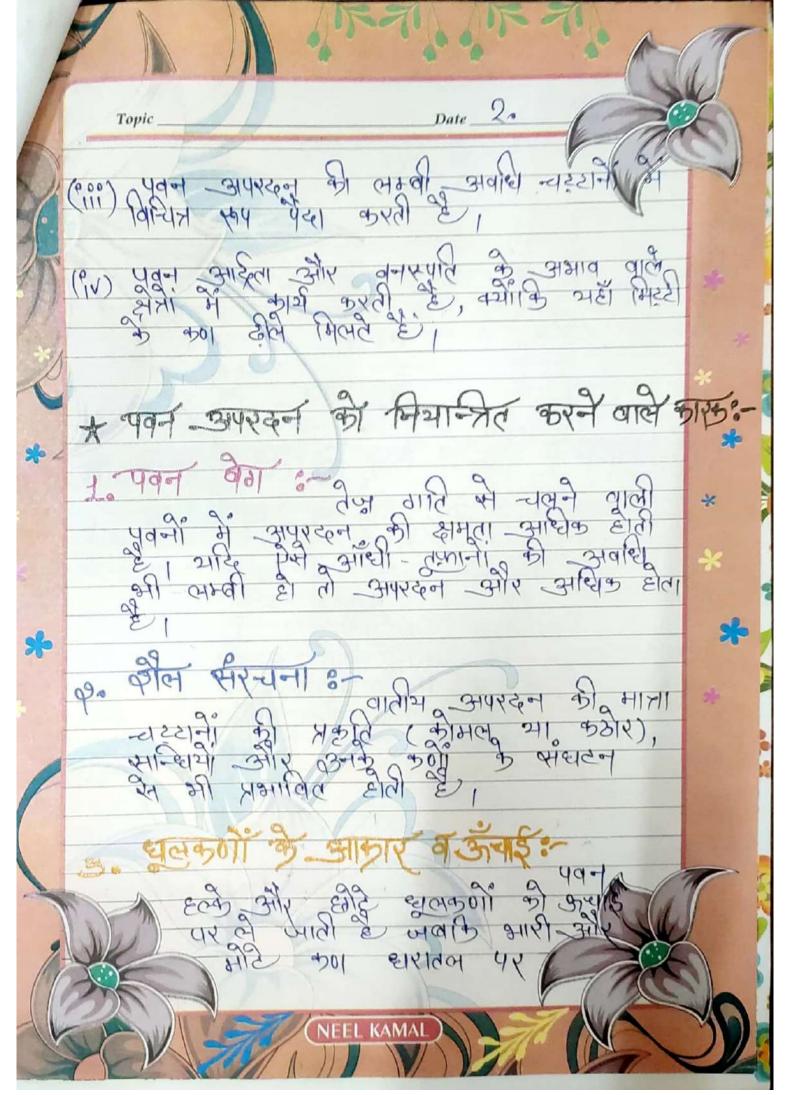
Scanned by CamScanner



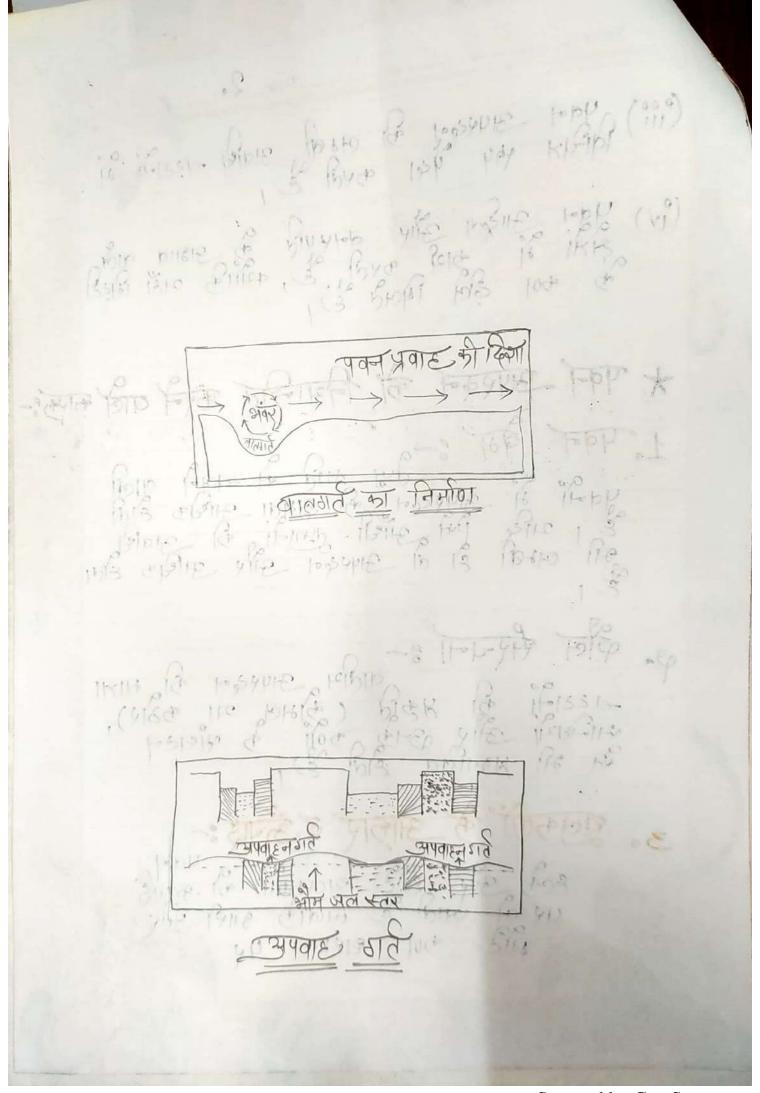
Scanned by CamScanner



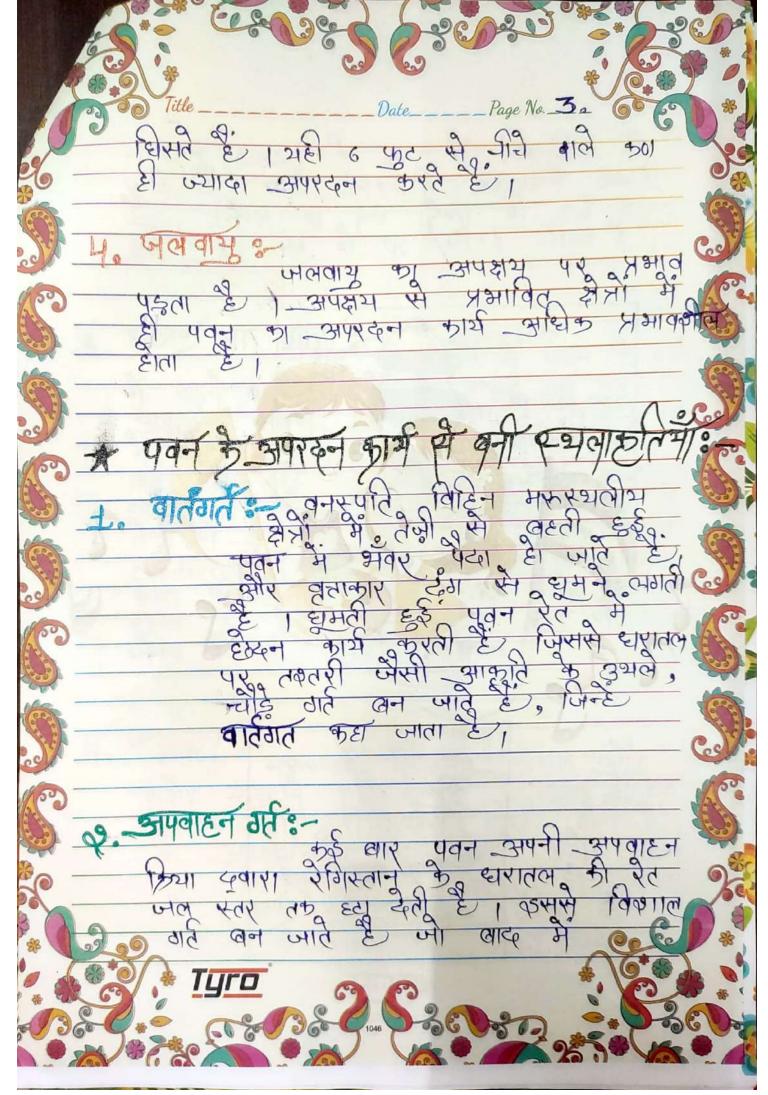
Scanned by CamScanner

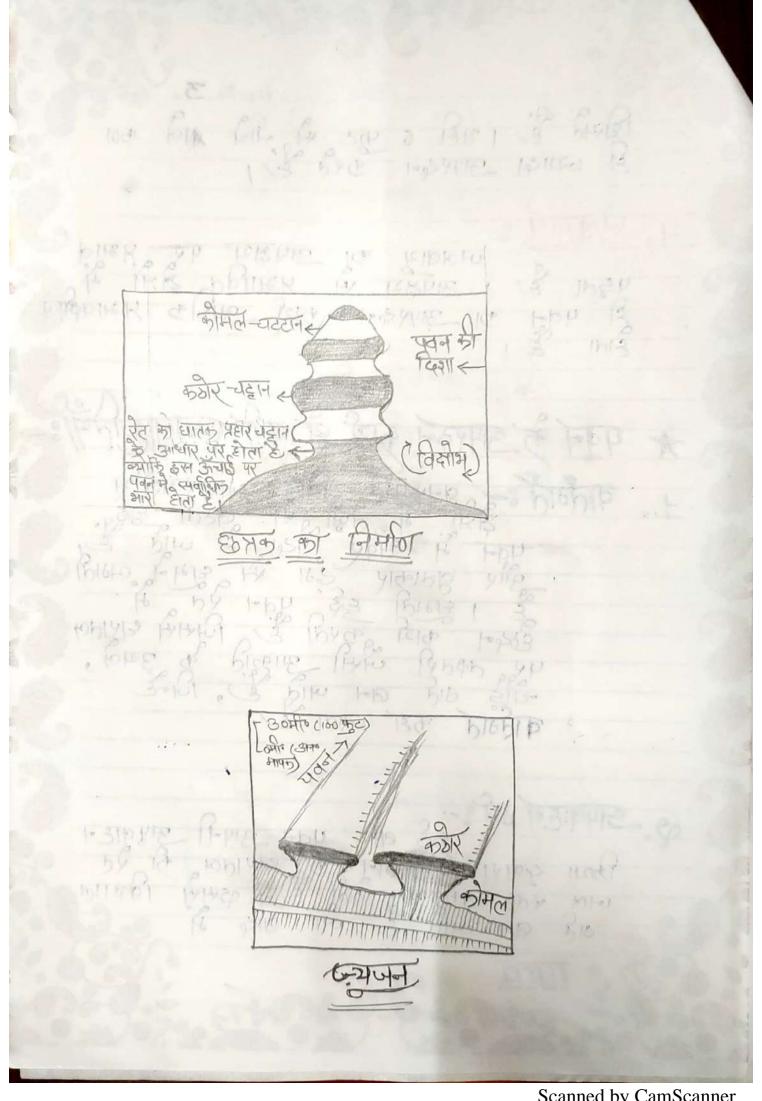


Scanned by CamScanner

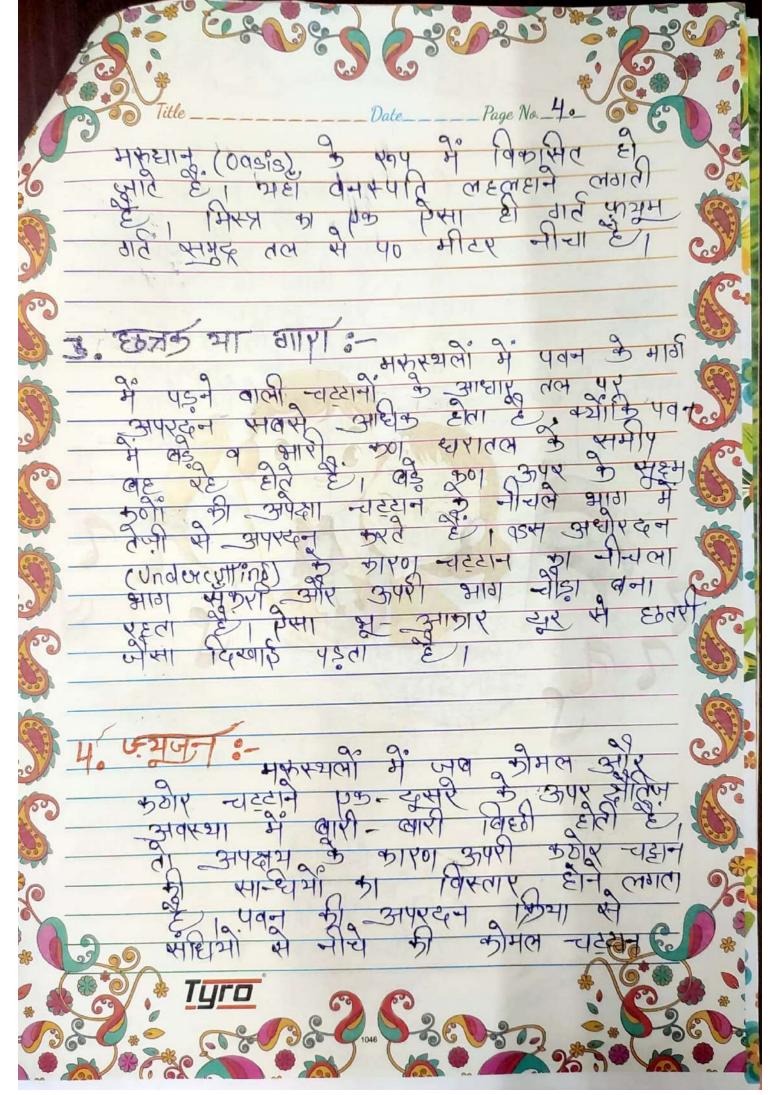


Scanned by CamScanner

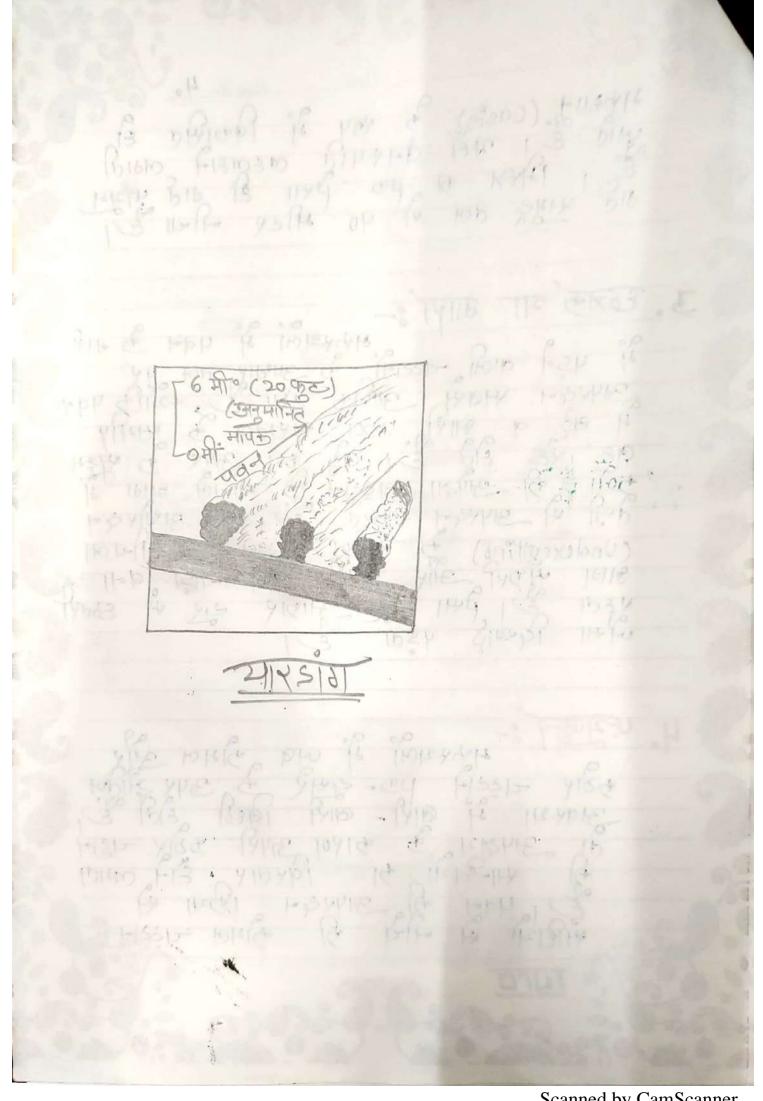




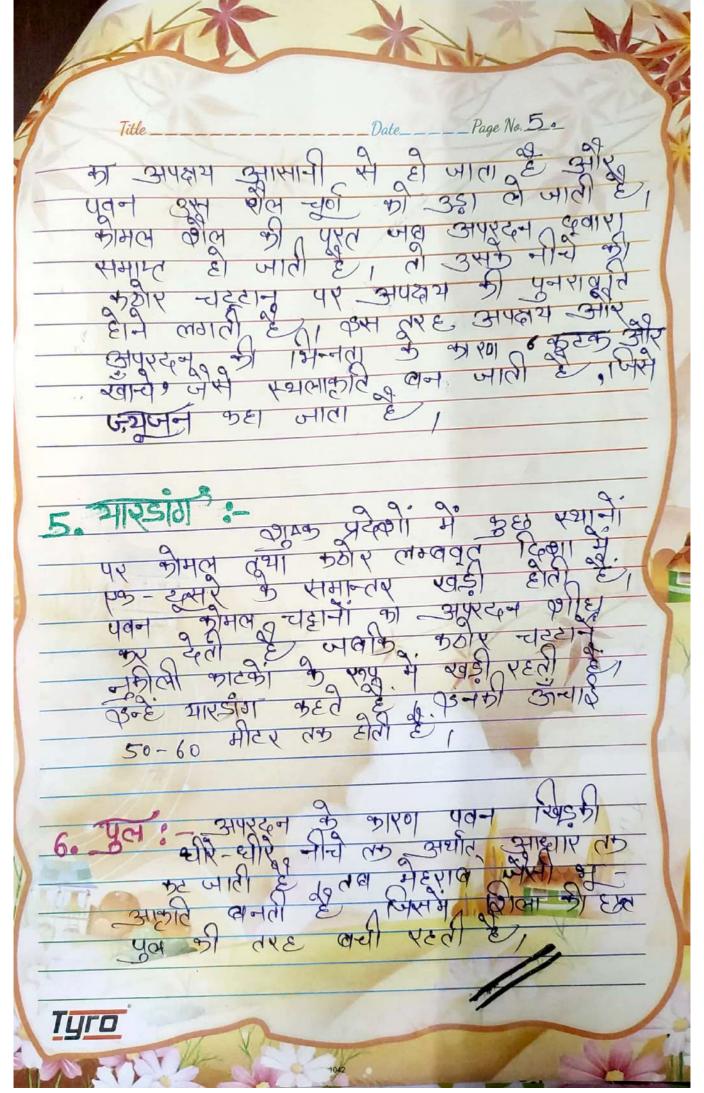
Scanned by CamScanner



Scanned by CamScanner



Scanned by CamScanner



Scanned by CamScanner

KALPANA

CLASS - BA IST

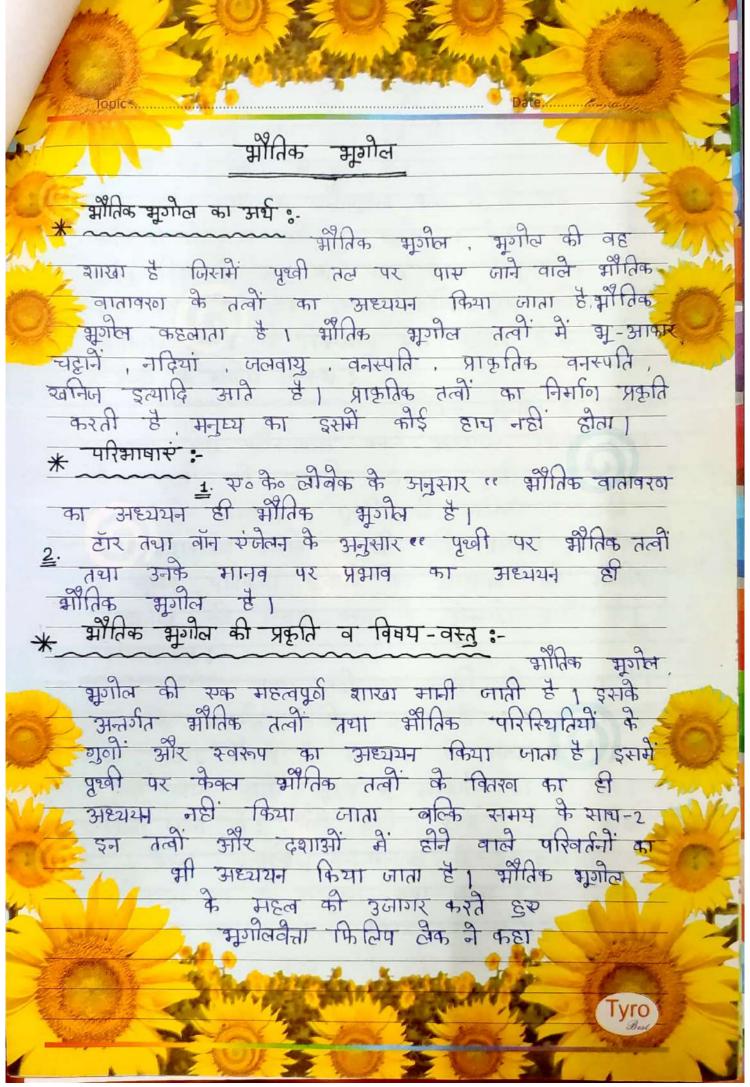
ROLLNO: 2158620002

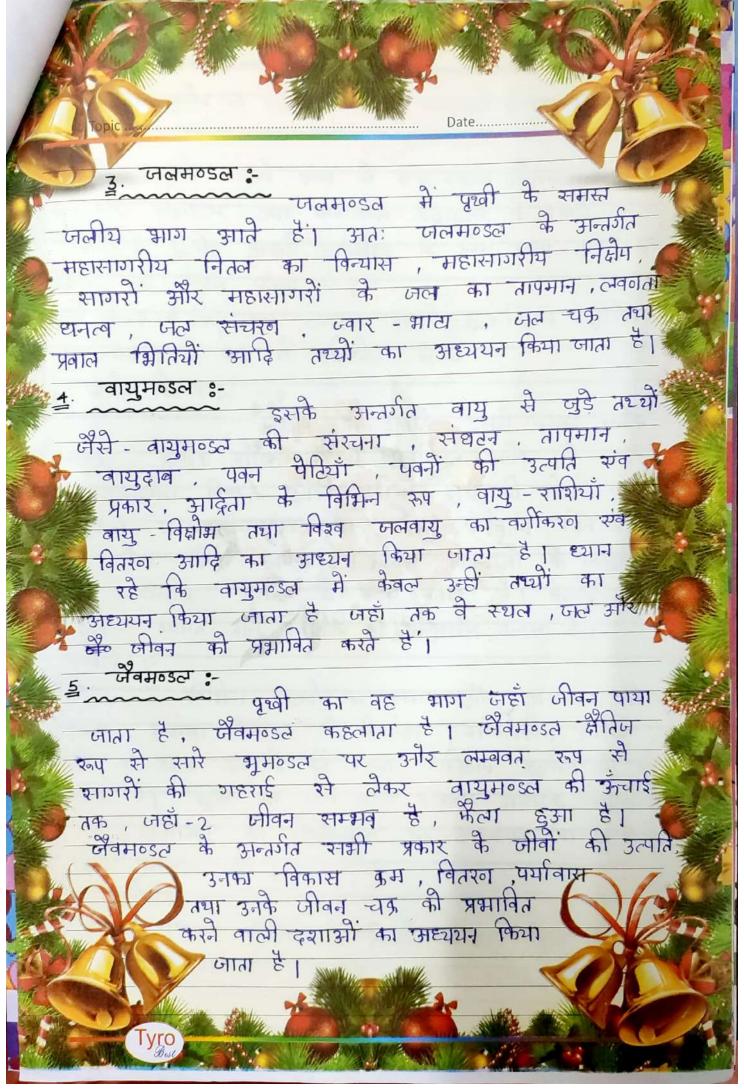
SEM. 2N()



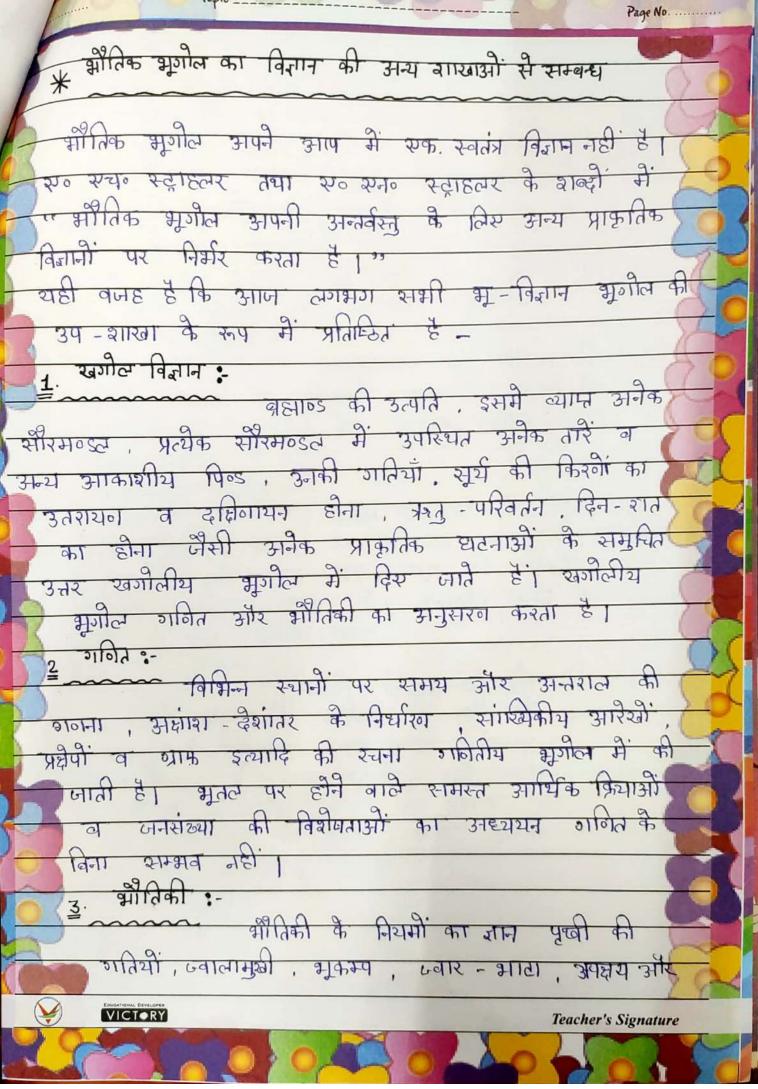
VICTORY

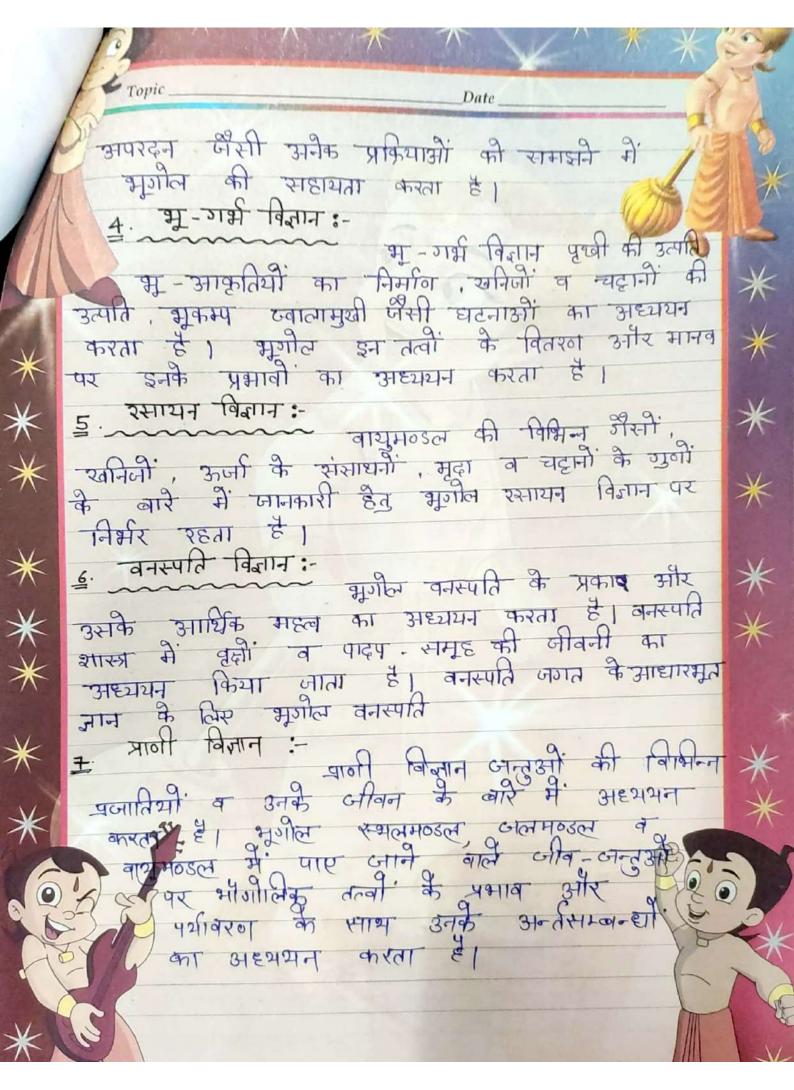
Teacher's Signature

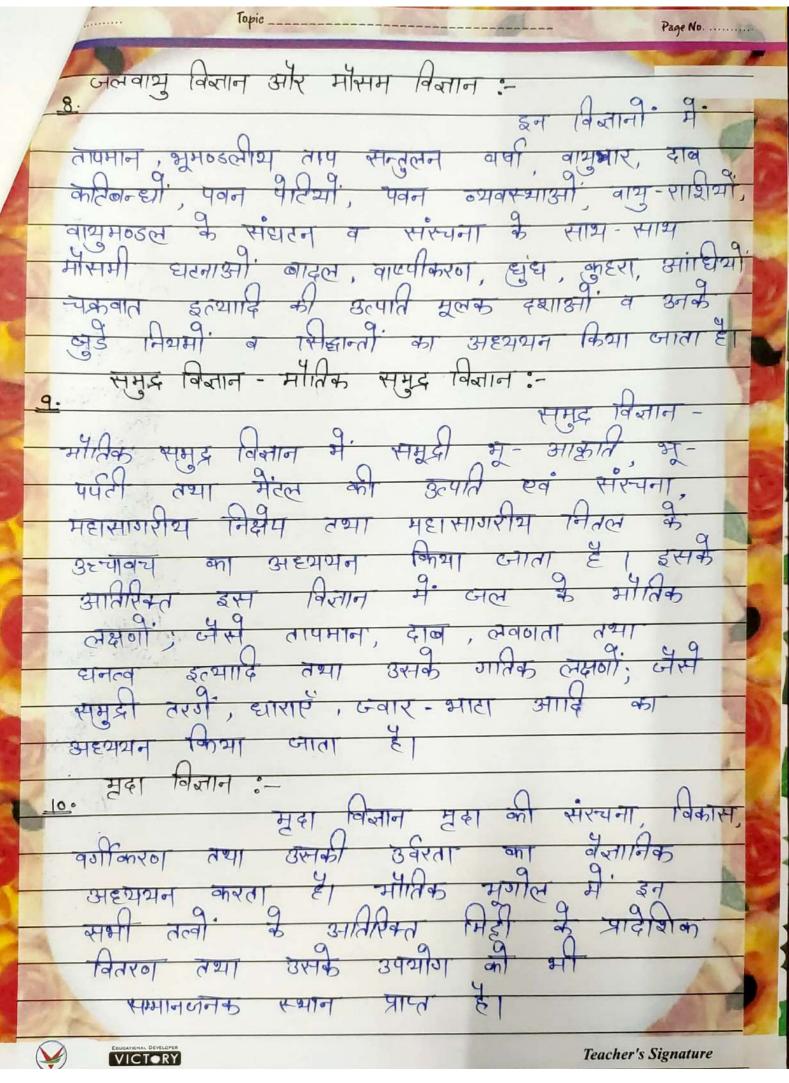


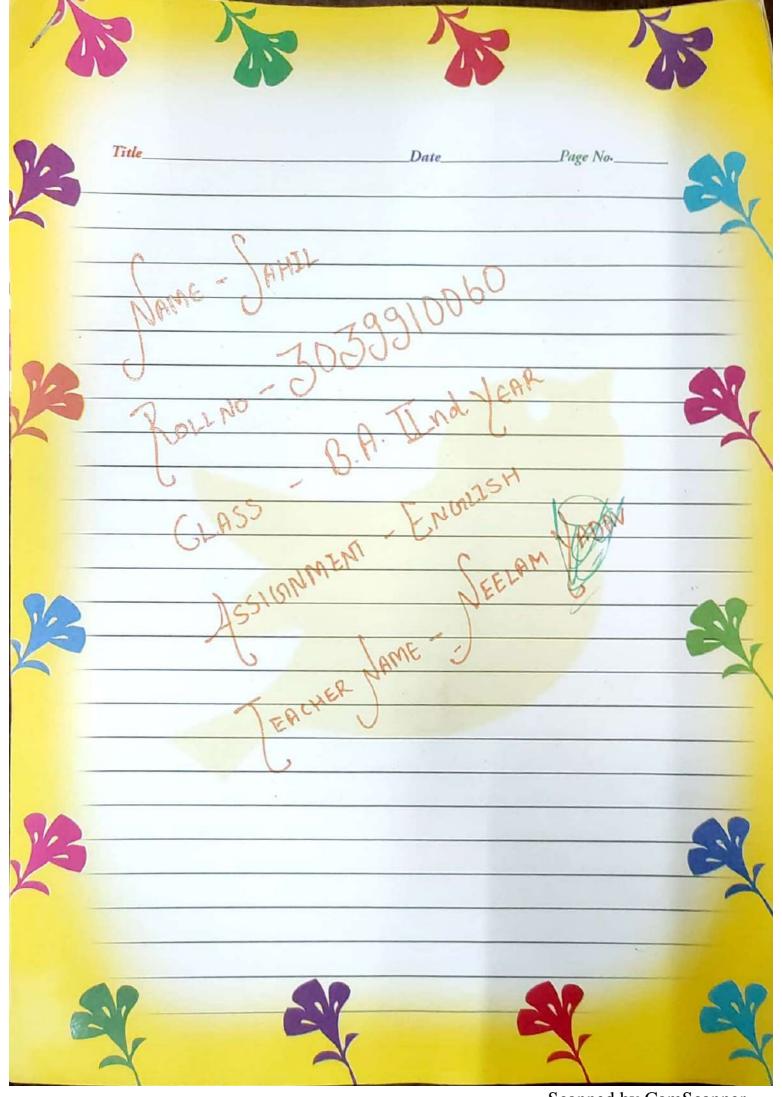


Scanned by CamScanner

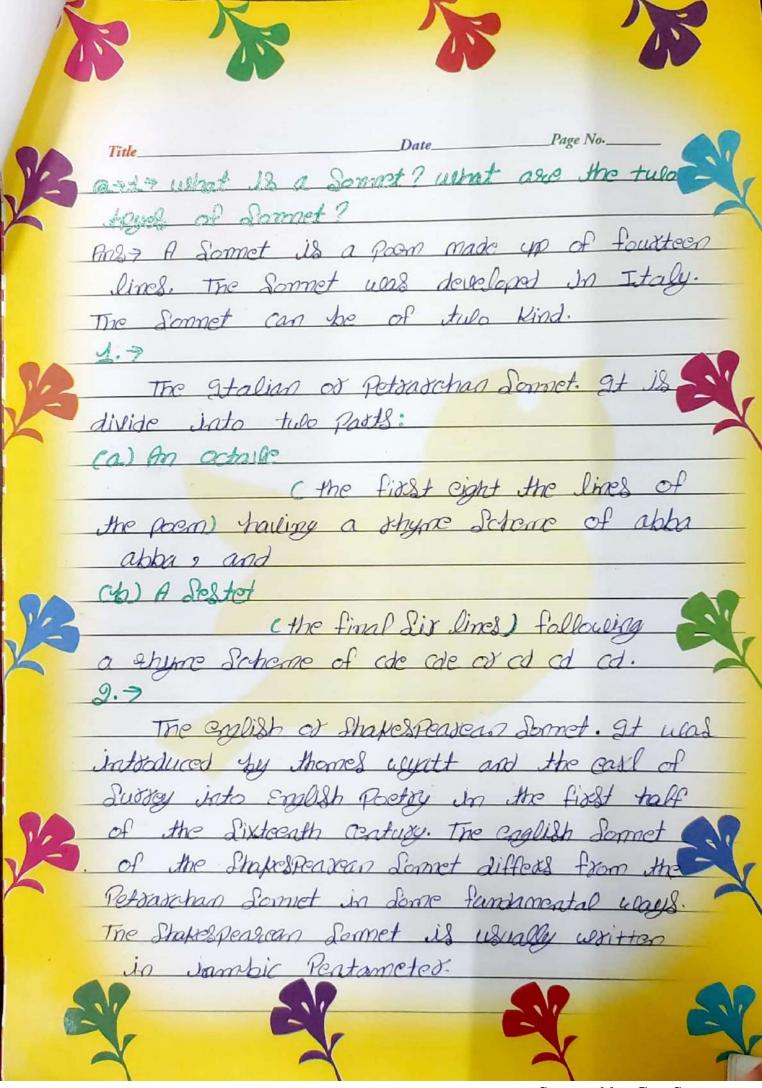


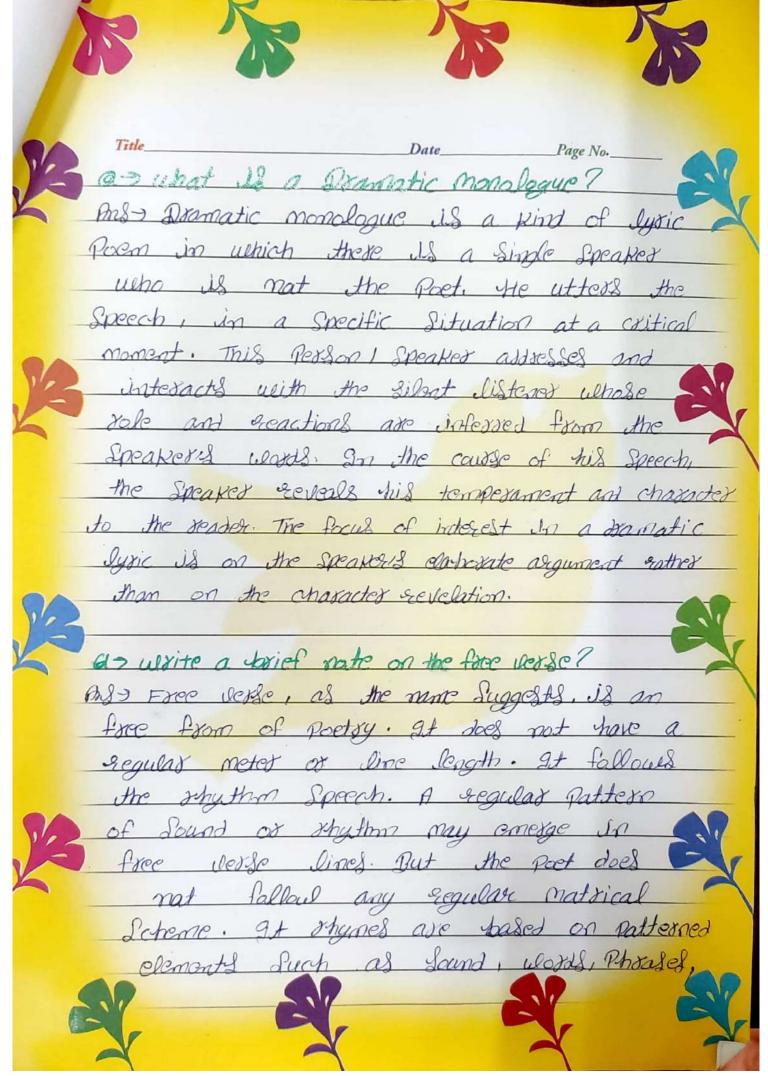


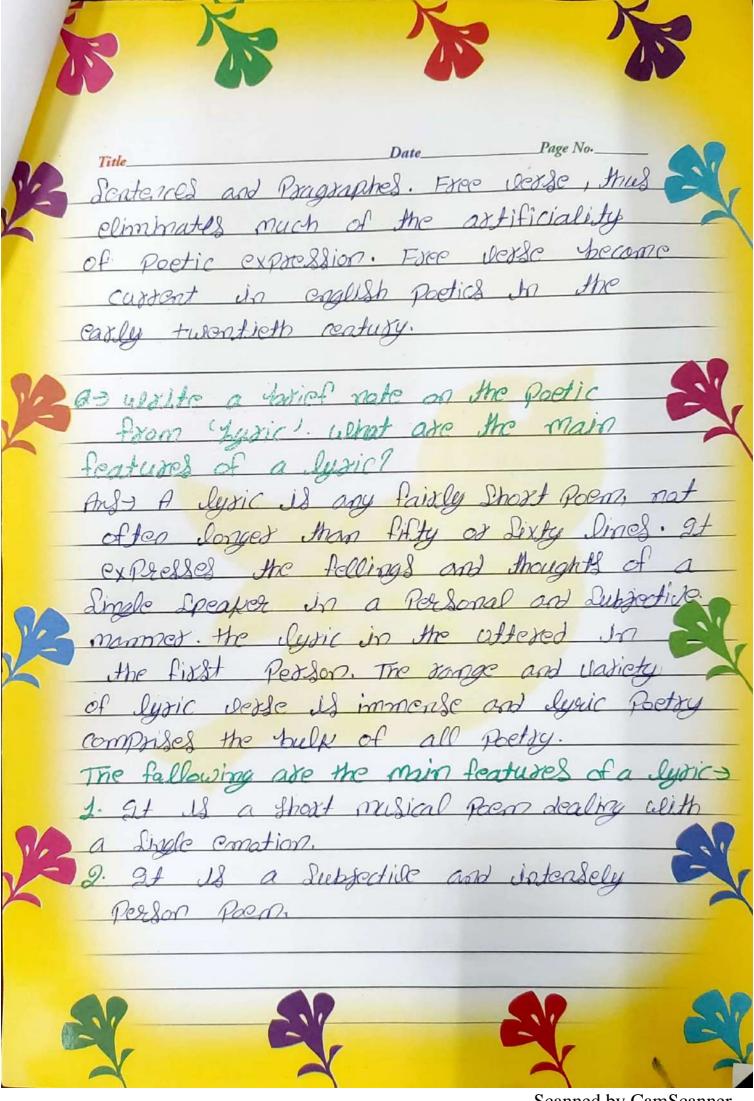


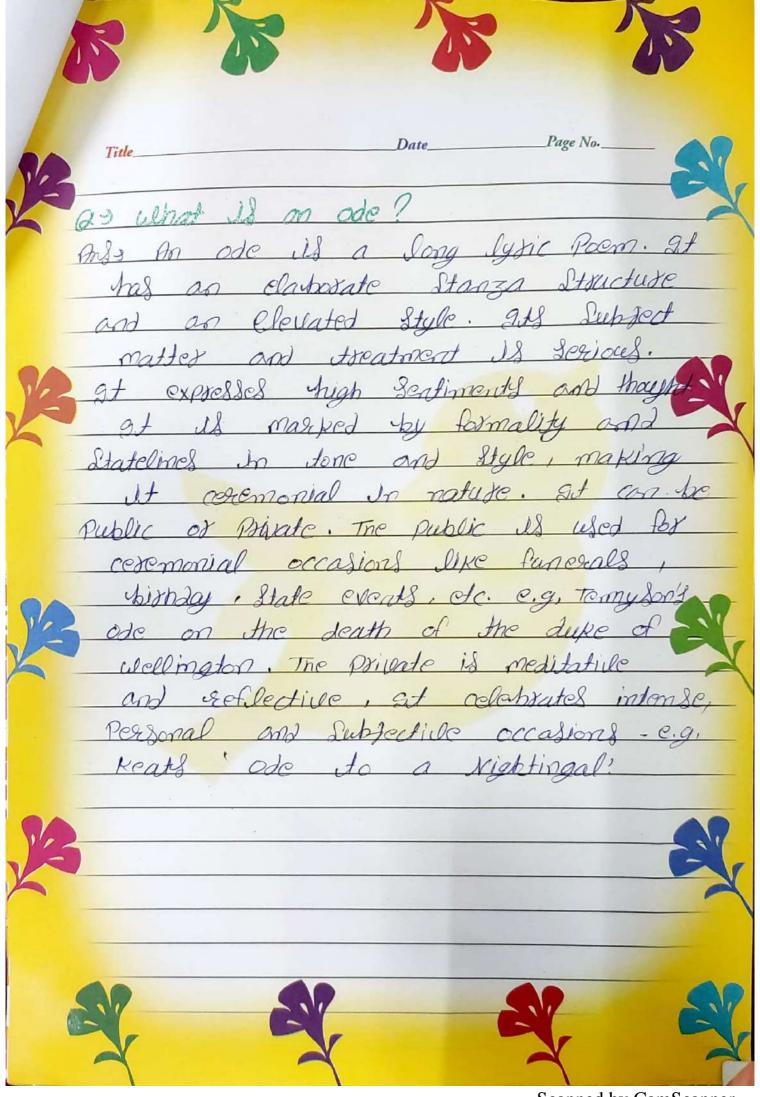


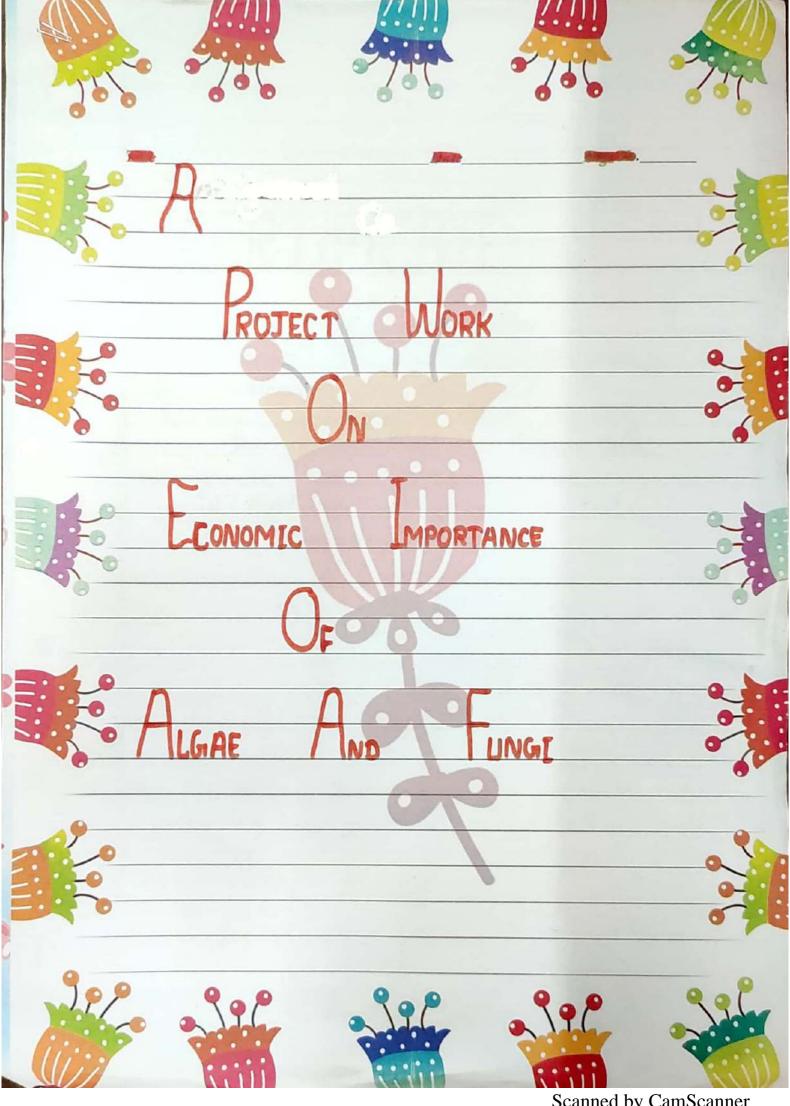
Scanned by CamScanner











Scanned by CamScanner

	Page No. Date
	This is to cestify Mamta class B.Sc I (Medical) has successfully completed the investigatory project on the topic Economic Importance of Algae and Fungi under the guidence of Mrs. Sadhna Yadav during the year 2019-20 in the partial fulfillment of botany practical examination.
	Momta Glass - B.Sc I (Medical) Roll No 4705420009 Grout Gollege Satnali Mahendetgath
D	

Page No. \$
Date \$ \$ \$

ACKNOWLEDGEMENT

In the accomplishment of this project successfully, many people have best owned upon me their blessing and the heart pledged support, this time I am utilizing to thank all the people who have been concerned with the project.

I want to thank my subject teacher Mrs. Sadhna Yadav whose valuable guidence has been the ones that help me patch this praject.

	Page No. \$ 2 Date \$ \$ \$
2.	Alginic acid - Algin is a carpohydrate, which
	Alginic acid - Algin is a carbohydrate, which occurs in cell wall of seaweeds such as
	Ascophyllum Laminatia etc. It is a colloidal
	material, its insoluble extract is alginic ocid-
3.	Carrageenin - It is a mucilagenous polysorcharide
	extracted from cell wall of some red algae
	Buch as Crigattina.
у.	Todine and Bromine - Japan produces about 100 tons
•	of iodine annually from kelps. Source of bromine
	are some of red algae like Rhodomela,
	polysi phonia.
5,	bilue- It is an another industry in Japon.
	Gilve also called funosi' is extracted from sed
	algae.
6.	Minerals and elemente- Many types of usea weed are used to obtain copper, chromium, cobalt.
	ate used to obtain coppet, chromium, cobalt,
	potash etc.
0 0	Role In Medicines-
U.	Many alone wield substance of madismal anticalian
1	An antibiotic chlosellin una obtained from Chlosella
1,	Many algae yield substance of medicinal application. An antibiotic chlosellin was obtained from Chlosella which is used against some bacterial infections. Todine used in medicines for goitse. Several vitamins A, B and C are obtained from
2.	Todine used in medicines for mitter
3.	Several vitamins A, B and C are obtained from
	101906
4,	Cassageen in extract acts as blood congulant.
	0

	Page No. ‡ 3
	Date * * *
D.	Role In Agriculture-
	Algae is useful in various ways-
1.	Festilizes and manuse- basge brown and sed
	algae growing as sea weeds are used as
	festilizess chiefly to the fast lands near the
	coastal jegion.
2.	Soil formation - Some algae are a part of
	lichens, which are the pioneers of plant
	succession and help in soil formation.
Е	Olara De Enddal
E.	Algae As Foddes- Most of the sea weeds, such as Fucus,
	baminatia ate used as foddet for sheep,
	goat, cattle and poultry etc.
	Use of algae as fooddes sesults in
(i)	increased egg lying capacity of poultry.
(ii)	increased volume and carotene contents of
	egg yolks.
F.	Algae As Space Provel-
	In secent years, biologists have constructed a system of utilize algae during a space flight thip to get thid of CO2 and other body wastes. It will also be used
	Pliant thin to get this of and
	other body wastes. It will also be used
	as a food. Fr. chlosella, pysenoidosa and
	Synococcus multiplies rapidly to synthesize
	synococcus multiplies tapidly to synthesize then havest by utilizing coz.

	Page No. \$ 4 Date \$ \$ \$
	Harmful Activities -
A.	Toxicity -
	Many algae produces some toxic substances
*	Toxicity- Many algae produces some toxic substances which affect the marine or aquatic forms.
В.	Parasitic Algae-
	Some algae grow parasitically on other plants, animals or human beings and
	other plants, animals of human beings and
(0)	cause various asease in them.
(Q)	Chosella may cause skin infections. Blastodinium grows in gute of cope-pods.
C,	Algae Causing Damage -
	Algae lausing Damage - Algae may cause serious damage to historical buildings, metals and wood works of ships and boats, textile and tents
7	manage to nistorical butterings, metals and lente
	and foodstuffs.
4	
• D.	Pollution in Water Supply- Some algae like spirogyra, diatoms grow in water reservoirs or channals and clog water filters. They change taste and odour of water by changing pH, CO2 and O2 conc. of water.
	Some algae like
	at channals and clog water filters. They
4	change taste and odout of water by
	changing pH, CO2 and O2 conc. of water.

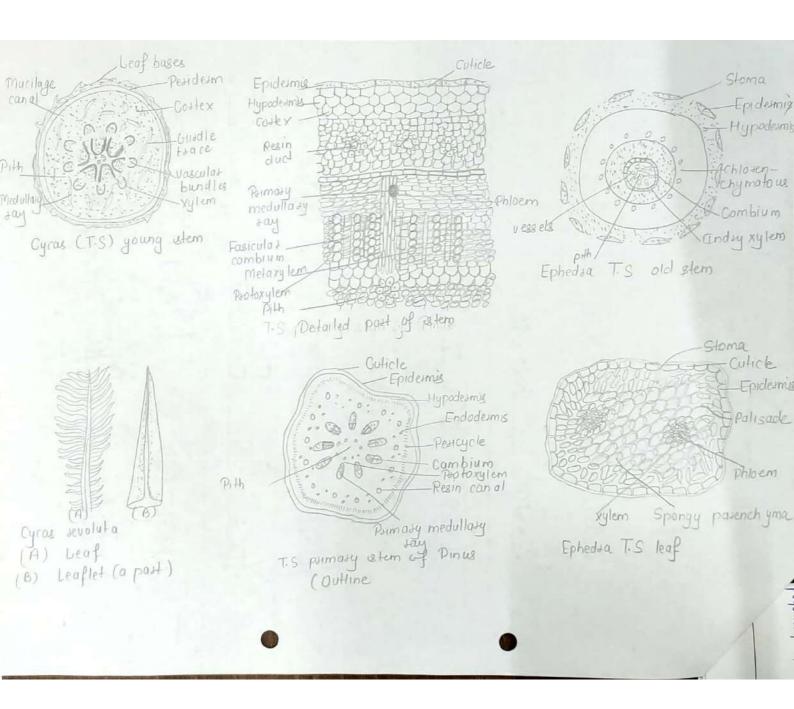
	Page No. \$ 5 Date \$ \$ \$
F	Economic Importance of Fungi -
No.	Useful Activities -
4	To Assignifican
1.	In Agriculture -
(i)	Soil Festility -
	Soil Festility. Some fungi maintain the festility of soil posticularly in acidic soils where bacterial activity is minimum, by bringing about decay and decomposition of complex arganic compounds into simples ones by their enzymatic activity.
	soil particularly in acidic soils where bacterial
	activity is minimum, by bringing about decay
	and decomposition of complex aganic compounds
r in a	The simples ones by their enzymane activity
<u>(ii)</u>	Decomposes - Many santophytic fungi decompose plante
	and animals debis into simples organic and
	masganic compounds and gases, which again
	Many saptophytic fungi decompose plants and animals debtis into simplet organic and inorganic compounds and gases, which again become available in the soil and air for
	plant growth.
(iii)	Mycotthiza -
	H symbiotic association of fungi with
	A symbiotic association of fungi with the tooks of higher plants us called mycorthiza and it may be ecto at endo mycorthiza. Mycorthizal tooks are generally resistant to infections e.g. Pinus tooks with fungi.
	mucotohiza. Mucotohizal toots are generally tesistant
	to infections e.g Pinus tools with Pungi.
(IV)	17994C9011017-
	Aspergillus, Cladasparium, Penicillium have
	soil binding properties and secrete mucilage which cause soil aggregation.
	which cause goil aggregation.

/	Page No. A Bate A Bat
2.	As Food -
(i)_	Yeast Cake-
	Yeast cake are prepared by mixing a large no of yeast cells with some mert usubstances such as starch and than compressed to form cakes.
(ii)	Food Yeast -
(lii)	Food Yeast - Food yeast is a product containing 15% proteins and B group of vitamin manufactured by growing yeast with ammonia and molasses. Edible Fungi- There are about 200 species of Jungi
	used as food. The most important frutifications used as food care common field mushroom. Dhingri.
3.	In Medicines-
(i)	Antibiotics -
(ii)	These are organic substances produced by micro organisms, which inhibit the growth of certain other micro organisms. Penicillium — Penicillium notatum Vitamins—
(II)	Fungi ate a tich soutace of vitamins. Vitamin B complex is obtained from yeasts.

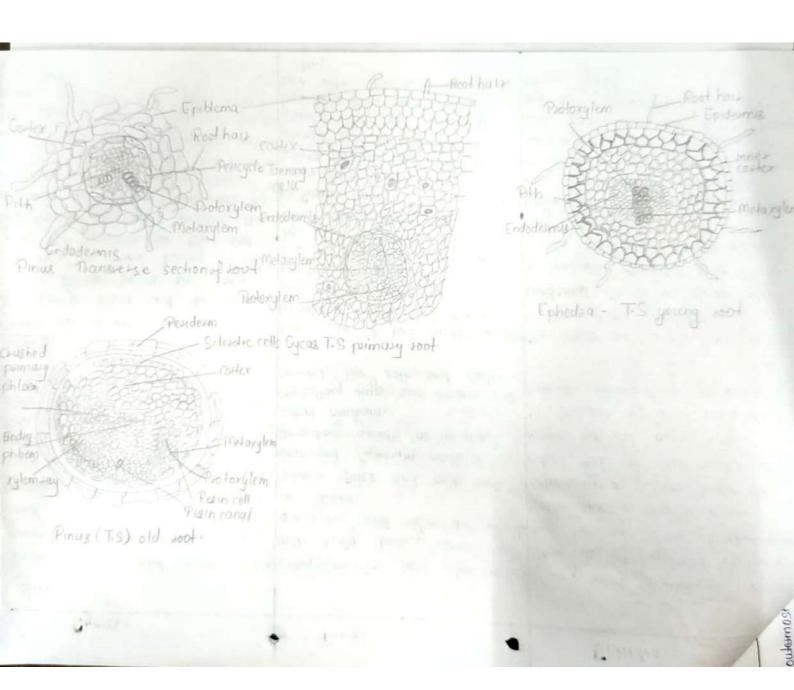
/	Page No. # 7 Date # #
4.	In Industry-
(i)	Alcoholic Fermentation- The most common alcoholic beverage
(ii)	The most common alcoholic beverage like wine from grapes, beer from barley whiskies from cereals. Cheese Industry- Some fungi known as cheese moulds are used to add a characteristic flavour and texture to cheese.
5.	Experimental Studies- Neurospora sitophila completes its sexual life cycle in few days and chance make an ideal organism for study of laws of heredity.
	Harmful Activities- Allergic Fungi - Spores of many moulds (Mucor), fungi Imperfecti and others like smute and rusts reach throat and legs and cause different types of allergies like asthma.
2.	Fungi As Poison -
(i)	Food toxins - These cause food poisoning.

1	Page No. \$ 8 Date \$ \$ \$
	Mycotoxins production can occur in any plant product but cereals and oil seed crops.
(b)	Mushtoom poisoning-
	Several mushrooms produce toxins and cause mushroom poisoning called mycetismus causing diarrhoea, vomiting, liver damage.
3.	Aflatoxins - These are the most potent carcinogenic
	agents produced by A. florus.

1	Date:
	GOVERNMENT COLLEGE SATNALI
	SUBJECT - BOTANY
•	SESSION - 2020 - 21
	CLASS - BSc. II (MEDICAL)
	ROLL NO - 4705420009
	TOPIC - COMPARISON B/W CYCAS,
Q-	PINUS AND EPHEDRA
	SUBMITTED BY- MAMTA
	SUBMITTED TO - MRS. SADHANA YADAV



istem.

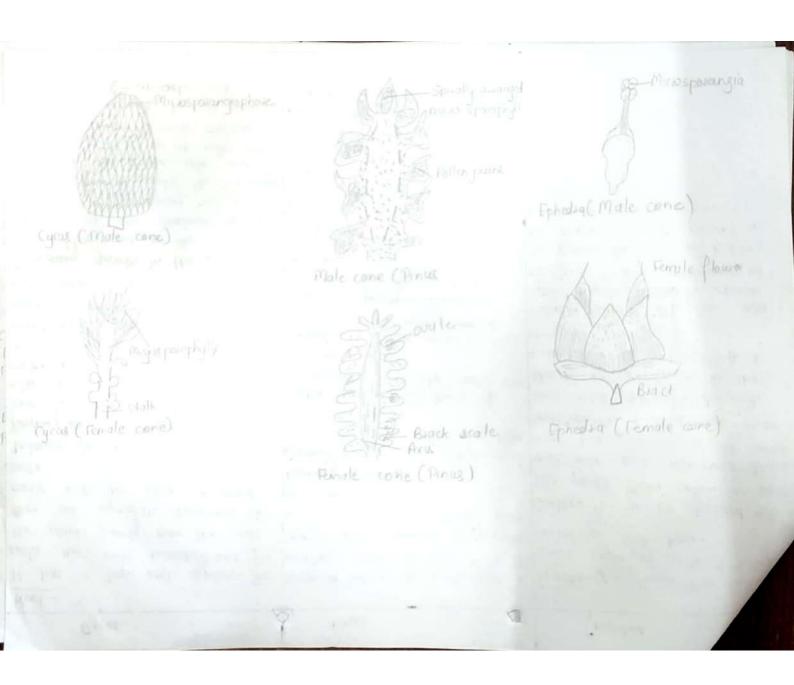


a natural toot.

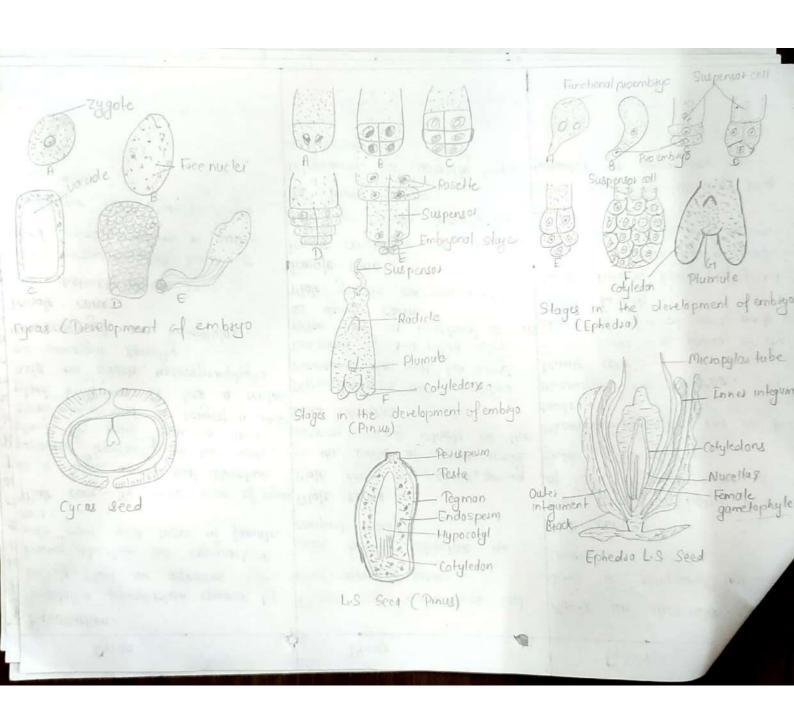
not seen

and

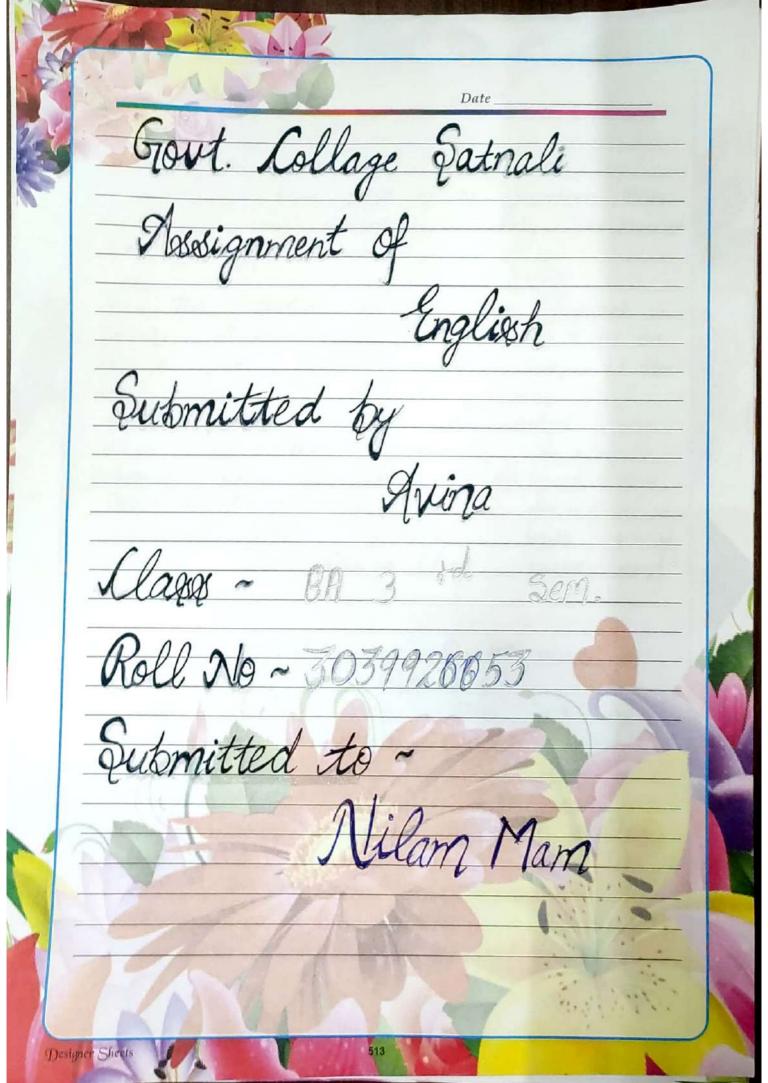
in



Reproduction— Vegelative reproduction common by bulbils. Plant are dioecious. Spore bearing structure are compact in male cone and loose in female cones. Male cone—The male cone of cyas Male cones. Male cones are compact. Male cones are compound and not compact. Male cones are compound and not compact. Male cones. Male cones are compound and not compact. Male cones are bearing in whole of featile cones are bearing in the arrival of scale leaves replacing dwarf shoots on the lowest branches. Noticiospotangia are uniciospotaphylls arise on which microspotaphylls microspotangia are unicipally. Microspotang	Cycas	Pinus	Ephedaa
	Reproduction- Vegetative reproduction common by bulbils. Plant are dioecious. Spore bearing structure are compact in male cone and loose in female cone. Male cone—The male cone of cycas is a large, woody oval structure produced terminally on the male plant. The male cone is about soom long and is largest in whole plant king dom. It has a central axis on which microsporophylls are arranged spirally. Microsporongia are unicellular. Female cone— No distinct female cone. Each megasporophyll bear 1-5 noked megasporangium in pair- Integument is slightly longer	monospotangiale cone. Spote beating structure are compact cones. Male cones are small, atising in the aerial of scale leaves replacing dwarf shoots on the lower branches. Microspotangia are unicellular microspotangia are unicellular microspotangia are unicellular microspotas are with two wings. Dehiscence of 3-4 celled stage. Pollen tube us haustotal as well as speam cartier. Male gamete are non-motile. Female cone— Female cones are well defined. Bear two ovules laterally on its lower surface. Integument us slightly longer.	Gones use compound and not compact. Male cone - Male cones are borne in whorly of 2-4 at each node of fertile of branch. Microsporangium are bio or the nocular. Microspores are wingless. Female cone - Female cones are borne in the whorly of 2-4 at each node of fertile branch. Fertile branch bear two fertile flowers and each flower consist of a whorl stalk and terminal poule. Inner integriment is very long



Gyras	Pinus	Ephedra
Embayogeny — Zygole divide by face nuclead division than wall formation starts Pao embayo cells numerous. No assette polyembayony. Seed - Seed coat possess outer coloured fleshy layered middle strong	astanged in two tiets of 4 each. Ventral canal cell disintegrates. Time blw pollination and fertilization is more than a year- wall formation is tarts at nucleated istage. Pro emptyo 16 celled. Embryonal tiet has 4 cells. Rosette polyembryony is also teported. Seed - Testa is hard and linner tegumen is membranous. Nucellus is thin. Seeds are winged and formed	venter canal cell is small and pessists at the upper end. There is no time gap. Wall formation starts at nucleated stage. All 8 nuclei individually behave as proembtyo. Testa-is hard and dark brown but seed is covered by thick fleshy layer of fused. Endoderm present.



Date
Sonnet is a poem made up of fourteen lines. The Sonnet was developed in Italy. The sonnet Can be of kinds.
1. The Italian of Petrarchan Sonnet. It is divided into two Parts: (9) an octave (the first eight lines of the Poem) having a rhyme Scheme of abba, and (b) a sestet (the Final six lines) following a rhyme scheme of ede cale or ed cal. The Petrarchan Sonnet was almost alway connemed with Courtly lave or written in Preise (of fave and beauty.
So net. It was introduced by Thomas wyatt and the Fart of Swrey into English Poetry in the first half of the Sixteenth Century. The English Sonnet or the Shakespearean Sonner differs from the Petrarchan Sonner in Some fundamental ways. It is made up of three quatrains (for line Stanzas) ending with

1	Date
4	it represents its subject as an idealised shepherd in an indelised
	Pastoral Setting. It begins with an expression of grief and
	contains a juneral procession.
1	hout nature and must has on the inevitability of death and
	decay it Ends with an
	laws, milton 's lycidas
	and Handle so myrsis examples are same notable examples
	Elegy written in a country
	example which pays tribute to generations of humble and unknown chyrchyard.
	buried in a chyrchyare.
1	
	signer Sheets

GOVERNMENT COLLEGE S/ATN/ALI ASSIGNMENT : ENGLISH N/AME : IPOOJ/A CL/ASS : I3./4.2.2 IROLL NO. : 3039920025	S/ATN/ALI ASSIGNMENT : ENGLISH N/AME : IP()()J/A CL/ASS : I3./A.2.2
S/ATN/ALI ASSIGNMENT : ENGLISH N/AME : IP()()J/A CL/ASS : I3./4.22	S/ATN/ALI ASSIGNMENT : ENGLISH N/AME : IP()()J/A CL/ASS : I3./A.2.2
ASSIGNMENT : ENGLISH N/AME : IP()()J/A CL/ASS : I3./A.2.2	ASSIGNMENT : ENGLISH N/AME : IP()()J/A CL/ASS : I3./A.22
N/AME : 12()()J/A CL/ASS : 13./4.22	N/AME : 12()()J/A CL/ASS : 13./A.22
CL/ASS : 13./4.22	CL/ASS : 13./4.22
ROLL NO. : 3039920025	ROLL NO. : 3039920025
SUIBMIT 13Y : 7 12()()J/A	
SUIBMIT TO : NEELAM M	SUIBMIT TO : NEELAM M/

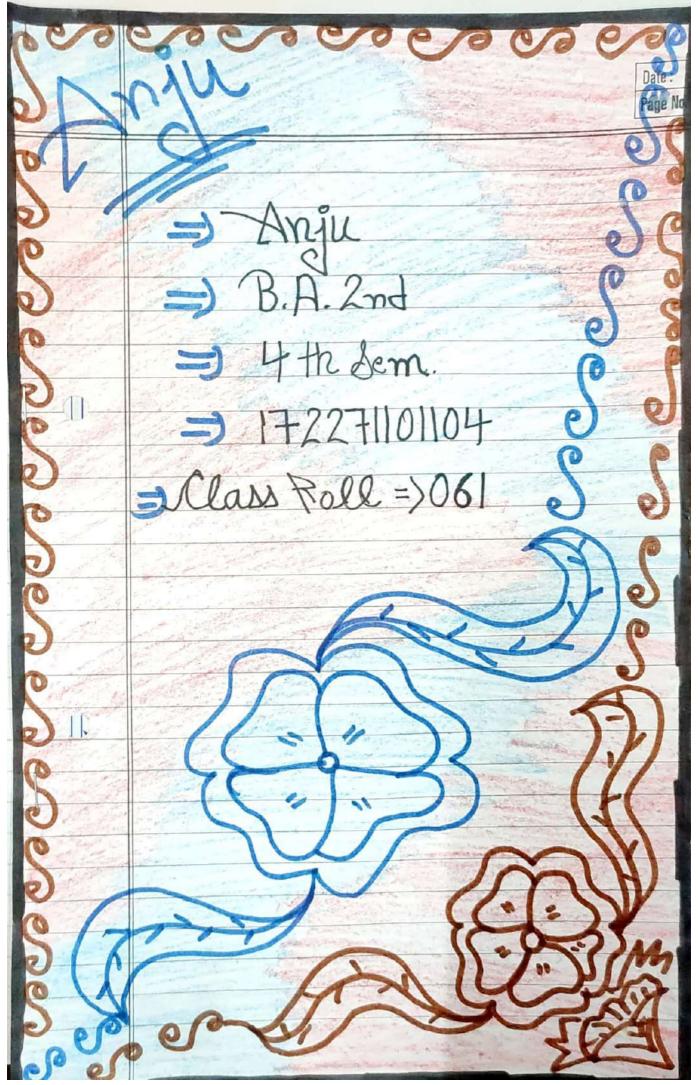
Name :	Page No. : 2.	Y
of	is a Sonnet? What are the two types	3
Ans :>	A sonnet is a poem mode up of n lines. The sonnet was devel in Italy. The sonnet can of two kinds:	-
(1) The divided	Jatian or Petrarchan sonnet. It is into two barts: (a) an octave	
and (b.	a shyme scheme of abba,	eme.
(a) The introduction of Sura	English or Shakespearean sonnet. It is red by Thomas What and the East rey into English poetry in the fix of the sirteenth century. The english or the Shakespearean sonnet	oas 1 25t
sonnet	or the Shakespearean sonnet of from the Petrarchan sonnet some fundamental ways. It is three quatrains ending with The Shakespearean sonnet is written in iambic pentameter.	made
up of	The Shakes begreen sonnet is	a

Name: Page No: 3. O. 2: Waite a basef note on the poetic from 'Lyric'. What are the main features of a Lyric? Ans => A Jyric is any fair.ly short poem, not often langer than lifty or sirty lines of a single speaker in a personal and subjective monner. The Jyric is attered in the first person. The following are the main features of a Jyric: (1) It is a short murical poem dealing with a single emotion. It is a well -kut poem which expresses the varying moods of the speaker poet. 3) It is a subjective and intensely personal poem. The narrotor in the lyric may be speaking alone, thinking aloud by himself, and in the process allowing the reader to gain an understanding of how he is feeling at a certain time or about a certain subject.	1		1
Ans: A Jysic is any fairly short poem, not often langer than lifty or sirty lines of a single speaker in a personal and subjective manner. The Jysic is uttered in the first person. The following are the main features of a Jysic: (i) It is a short musical poem dealing with a single emotion. (ii) It is a well - knit poem which expresses the varying moods of the speaker poet. (ii) It is a subjective and intensely personal poem. The narrator in the lyric may be speaking alone, thinking aloud by himself, and in the process allowing the reader to gain an understanding of how he is feeling at a certain time or about a certain	6	Name :	
Ans: A Jysic is any fairly short poem, not often langer than lifty or sirty lines of a single speaker in a personal and subjective manner. The Jysic is uttered in the first person. The following are the main features of a Jysic: (i) It is a short musical poem dealing with a single emotion. (ii) It is a well - knit poem which expresses the varying moods of the speaker poet. (ii) It is a subjective and intensely personal poem. The narrator in the lyric may be speaking alone, thinking aloud by himself, and in the process allowing the reader to gain an understanding of how he is feeling at a certain time or about a certain		0.2. Write a brief note on the poetic from 'Lyric'. What are the main features	N
the first person. The following are the main features of a lysic: (i) It is a short musical poem dealing with a single emotion. If is a well - knit poem which expresses the varying moods of the speaker poet. If is a subjective and intensely personal poem. The narrator in the lyric may be speaking alone, thinking aloud by himself, and in the process allowing the reader to gain an understanding of how he is feeling at a certain time or about a certain		of a cysic!	11
the first person. The following are the main features of a lysic: (i) It is a short musical poem dealing with a single emotion. If is a well - knit poem which expresses the varying moods of the speaker poet. If is a subjective and intensely personal poem. The narrator in the lyric may be speaking alone, thinking aloud by himself, and in the process allowing the reader to gain an understanding of how he is feeling at a certain time or about a certain	D	It expresses the feelings and thoughts of a single speaker in a personal and	
(i) It is a shoot musical poem dealing with a single emotion. (i) It is a well-knit poem which expresses the varying moods of the speaker poet. (ii) It is a subjective and intensely personal poem. The narrator in the lyric may be speaking alone, thinking aloud by himself, and in the process allowing the reader to gain an understanding of how he is feeling at a certain time or about a certain	7	the first person. The lyric is utlessed in	2
The narrator in the lyric may be speaking alone, thinking aloud by himself, and in the process allowing the reader to gain an understanding of how he is feeling at a certain time or about a certain		It is a shoot musical boom dealing with a	
The narrator in the lyric may be speaking alone, thinking aloud by himself, and in the process allowing the reader to gain an understanding of how he is feeling at a certain time or about a certain	(a)	ght is a well-knit poem which expresses the varying moods of the sheaker hat	
subject.	(3)	It is a subjective and intensely personal poem.	6
subject.		The narrator in the lyric may be speaking alone thinking aloud by himself and in the	
subject.		process allowing the reader to gain an understanding of how he is feeling at	
		Subject.	

4		1
A		
6	Name :	6
	0.3. ⇒ What is an ode? What are the three	
	types of odes?	
	Ans An ode is a long lyric poem. It has an elaborate stonga structure and an devated	1
	Slude. dT8 subject motter and treatment is	
V	sexious it expresses til anti t	
	It is marked by formality and stateliness	10
	It is marked by formality and stateliness in tone and style, making it ceremonial in noture. It can be public or private.	
A	There are three types of odes:	
(4	The regular or findaric Ode:	
	Greek poet Pindar. It was introduced into English	
	Vitexatura I Par I To II Did into English	-
	diterature by Ben Jonson. The Pindaric ode has a set structure: (4) The strophe (b) The antistrophe.	1
		1
7	Isregular ode:	100
X	Owley. It disregarded the recurrent stonzain pattern.	
	cowsey of aussegueded the recurrent slanzain pattern.	
16	The Horatian Ode:	
100	Roman writer, Horace It is written in a	
	Roman writer, Horace. It is written in a	3
	single repeated stongs from and is shorter.	
0		1

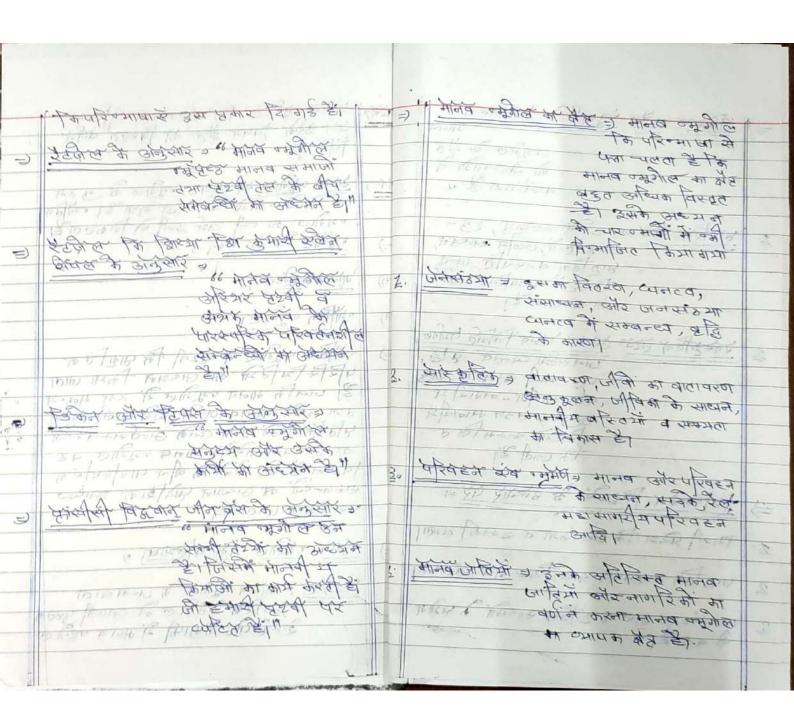
Name :
Q.4 >> Urite a brief note on Elegy and its
use in poetry?
HNS 7 ELEGY IS a selection systematic poem
lamenting the death of a public
personage of a friend or a loved one. It is a meditative poem on the theme
If is a meditative been on the theme
of human mostality. In classical literature,
of human mostality. In classical literature, it covered a wide range of subjects from
laments to love poems.
Sufferus 10 seec perins
Pastoral elegy:
ond follows a sather formal pattern. It represents its subject as an idealised sheppe at in an idealised pastoral setting. It
and follows a xother formal battern 9th
represente ite subject as an idealised stable
the in an idealised bastaval setting of
ende with an application institution of
noture's love miltar's 11 of 163 115
Shallou's 'Adamaia' (1821) and Danall's
ends with an affirmative justification of nature's lows. Milton's Lycidas' (1638), Shelley's 'Adonais' (1821) and Arnold's Thyosis' (1867) are some notable examples of pastroal elegy.
to tastanal classic some notable examples
of pasioned engly.
" [lan 1 without a Cont con & 1.
is an outstanding example which pays.
18 an owisianding example which pays.

Name :
O.5 ⇒ What is a Dramatic Mono logue? Ans: ⇒ Dramatic monologue is a kind of Jysic poem in which there is a single speaker who is not poet. He utters the speech, in a specific situation at a critical moment. This person / speaker addre -ssed and interacts. 'My Last Duchess', who is addressing the envoy of a prospective father -in - Jaw, confesses to the murder of the wife he is hoping to replace.
0.6 :> Write a brief note on the free Verse?
Ans :> Free verse, as the name suggests, is an free from of poetry. It does not have a regular meter or line length. Its shymes are based on patterned elements such as sounds, words, phrases, sent ences and paragraphs. Free verse, thus eliminates much of the artificiality
of poetic expression. Its flexible organis - ation switz the modern idiom and casual tonality of language.
casual tonality of language.



Scanned by CamScanner

मानव गर्मी	w the Amara Bus	V 1. 11
येव डेसेके न	विवस श्रेम थी विरुद्ध वर्ष	
follow o	निस्ति कि मा विस्तित वर्ग	15/6
Pi www	The state of the s	
मानव कर्मगाड	म मा क्रमी न नमी न में व	7
क्रमणीय स	1 1 1 1 1	विका
न्स्रीस के	रमी अने उसी से निकलत	E
	- 110 S	
मीन्व नमुजार	TIM W	
WE AT A	THE THE	
वमादिश वर्मग्री	TO THE PARTY OF TH	
वस्तिक वस्ती	गल में प्रेमी कि पाकृतिक	
4272 2	1000	
ही जनिक	भागव प्रमाल में इस ।।	
ते आ उसके व	गतावरण में होने वाको अव	Fie
रिति कि भा उने	में वेशा उनके अन्तिमम् न	14
या अन्यम	विकीं भागव ग्रुगेल व	5
अम्बन्द्री क	त अन्यम पादिशिक आह्या	N
पर किमा ज	गया ही भारा है। साला-	2
FOR TO HOLE	Provision of the second	
मानव गर्में	म मिक परिन्मावा न	
12 PPI OIL	7-1-1-1-1-1-1	
रडलें भी	वार्व कर्मगाञ्च के त्यनमदाया	
713	रिक इंटले क में भाग व न्यूरी	192



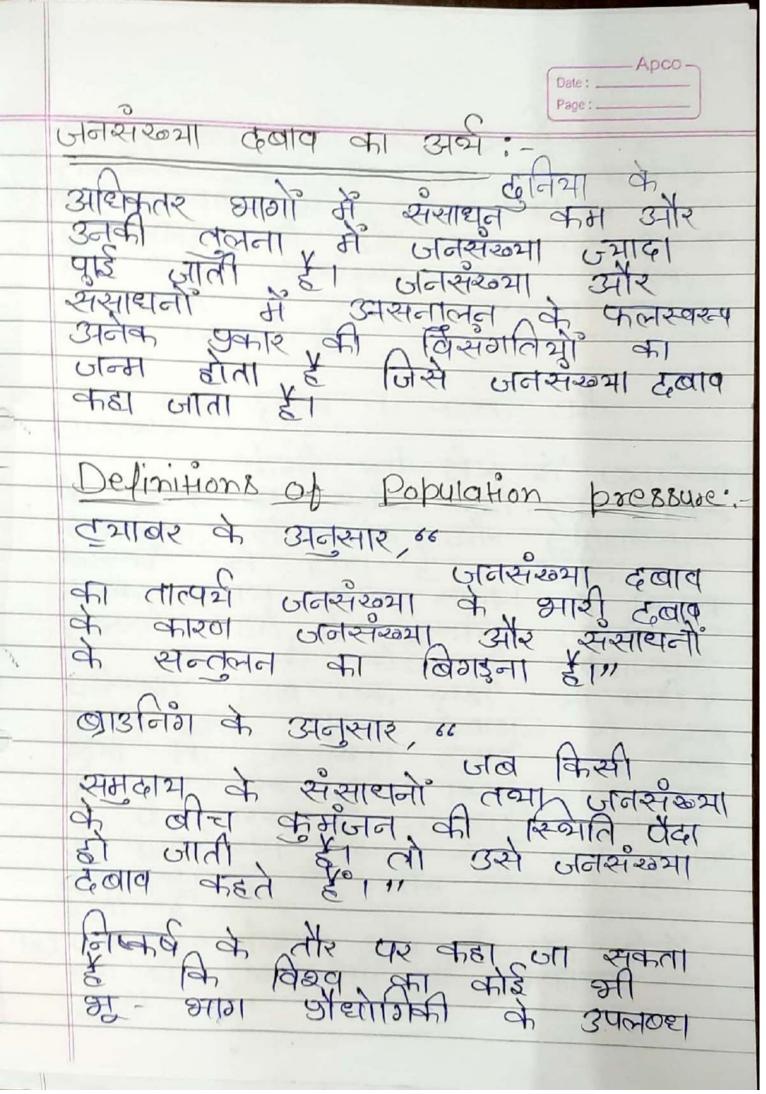
- 1	सिम्म स्पूर मुदेवास के अपूर्वार हा	. प्रच्या)	वेज संसाध्यमें के न्मीमिल्ड विकशा पर जीर	
5	Hield		A Pro	
		377	वम संसादान पृष्ठि कि देन है। जब	
			उसके उमने, पालने पालने में सल्या	- 6
	की दी बमाओं भी		उसके उनका, मलस निवन से मिने हम	
	वारों गमा है य		का कोई हाज नहीं हैना तक उसे सक्विक	. 8
			वनस्य हिं सामान कि गर है। पर	
	स्रोक्षिक देख्न । इसमें अलवास , १५-		यम महत्वपूर्ण जीविम संसायम के उसिक्त	
2	साक्षाविक त्राच उत्तक तिया, जालीय क्रान्यन,		उसे हिल सीना कि संबंध दी जाती है।	
	tublat davuld bog		मानव अपनी आदिम अवस्था में बनी पर	1.00
-	किहिंगा व स्वनिज धरासी	15	आति भा आमेर तभा वनीटपारीं का	
	· Comment	2.0	जागरण है। जागर वंगा वनाहिया या कर	
	्रिकारकार प्रकार है।		पंगरण हरा हा महम अवसाम ज्या प्रमेक्टा	1
	स्तरकृषिक तेल असवा भानव मिनिक प्रमिक्ट		की शह रखने, रिमर्टी कराव की रोकाने,	
0.	त्यारकाविक पुट्य सम्मवा मानव विश्वमण तमावरण		मिट्टि कि उपालाक अभित बड़ाने तथा	1.
2	त्यसम्भा तन्त्व विश्व		अलवास भी भवमानित राम मा मार्	1
	प्रमाश्चा वार नारी अनुपाद, खाउँ	- 3	वेम लगड़ी, काशाद, गाँड लाख सक्छी	
	94 4/14/01 - 4/4/2/11		न्यमा रमने कि वस्तु र तमा रवड़	2/
	क्रिक्ट के विमान विमान तथा मानवीम		आदि।	
	विरिवा सम्मित	-		
	नि दार्थ है।		परन्त मानवा ही अपनी प्रकर्श की	
			प्रा करें के किए उनकी अंद्रार्ख	
	Labella Alexander Charles by	-32	कराड करने उनकी नाप्य करिक	
	-रिविकारम, विद्वामी के अम्बार पर =1		34 to Luck grand 1	
->	The first property carry		विश्व के 29% मारा पर वर	
	किसी प्रेश कि जनसंख्या व उसकी बमला		संजाल्यन पार जाते हैं। इनजा	
2:			अत्रीम वावावरत व विवर्ग	
	पाकृतिक वातावरवा दारा रिश्च ग्रंच प्रांमायमं।	7 - 1-	वित्र पावावर्ग व विवर्ग	
2	साम् विक वापावडवा सामा । तत शेव दिसारा		अस मिथात है ने	0
510			THE DESTRUCTION POLICE	0
3	अमराहमा दास छाट्ट विक साटानों के भूमेग		पिक में इसमाध्य हा विशेष के विश्वास्थित कि	
2	भी बना है।		वेश अलाहास मा विश्रा न संसार भे न्मी	
	7.7.		11/2012 94	
				3
				100

1.	Tagada and profite the second we	
2.	भागमानी वर्ग ित है कि किला के	11.5
A.	भेटीकार वन । अर्थ क्षेत्र वन	
岁.	अभिति मिर्टा कर्मि भी प्रमि विकास	
5.	कीर्वारी त्यंस का कार्य का कार्य कि	
-)	वेमी मार्विश्मिक है। है हो हो ही ही	
2	विद्युवर्गमिवर्ग डा में बन विद्युवनी मार्क है यहिलारी अंशासी के स्ट है यहिलारी अंशासी के स्ट कि के अपने कि बीटों पार जाते हैं। अधिक है अपने कि अपने कि साहत के कारण	
	मार्ग प्रमास के उन्हें पड़ा के कार्य क	
3.	मान्सनी वन अभवन उपन करिवन-	

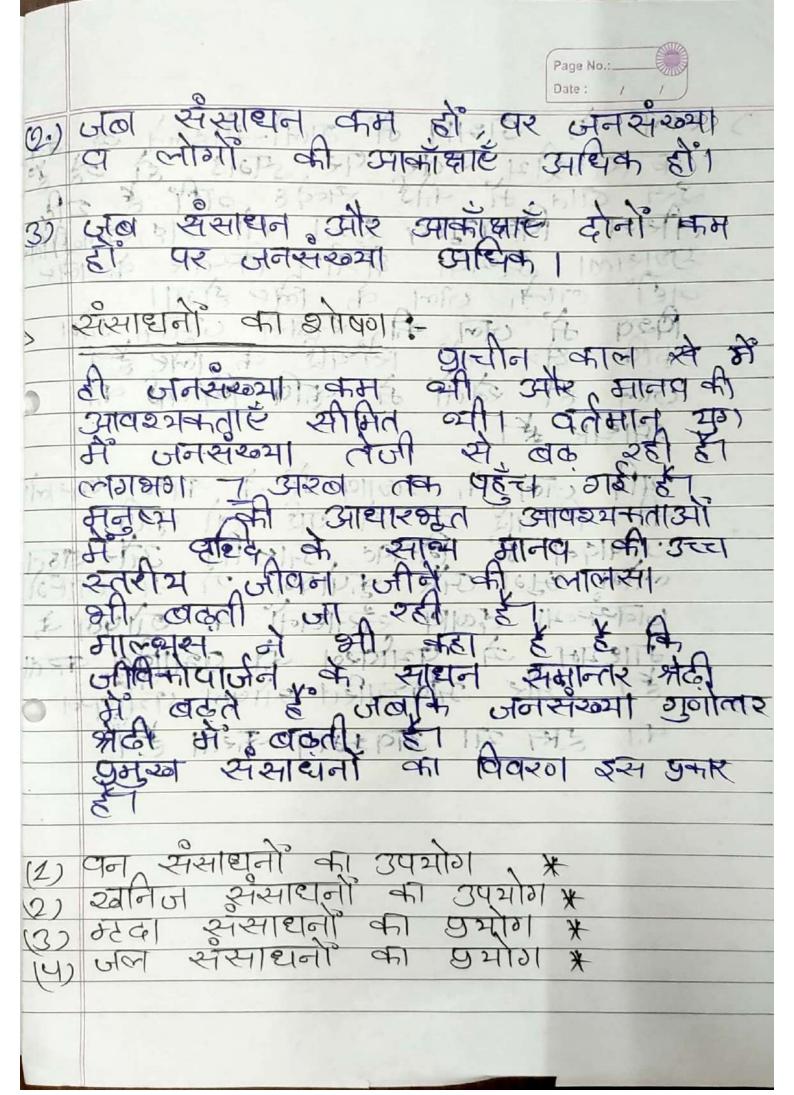
तम होसे ही उस प्रमार के वम कमारत-तार्षित वाच कमासाठ भी लगा गाइ खुठड आर दे लिया व अमिन में पाम जाता है। असमें चन्द्र देव दार, अदि। मिक किए हिस्ट- एकिन्वडीम प्रविधिष्ट मिथिकाडम मिर्टि तिर्देशमाः वसार्गा प०° अक्षाओं के बीच पारु जाते हैं। इसरित्र इस बेमी की जम्म सहस ाजी जार में से बम महत चिल्ली केप टाजन तमा में पार जाते हैं। मेलानी ने ने वस निवय के उन अंता में पार जाते के तमा है जारा क्षीत स्वत कि सम्बी व कहार होती है। आर जीयम प्रदुष बिड्ट भोजी अवस्मि प्रदुष इलकी ही वी है। उसिक्ड

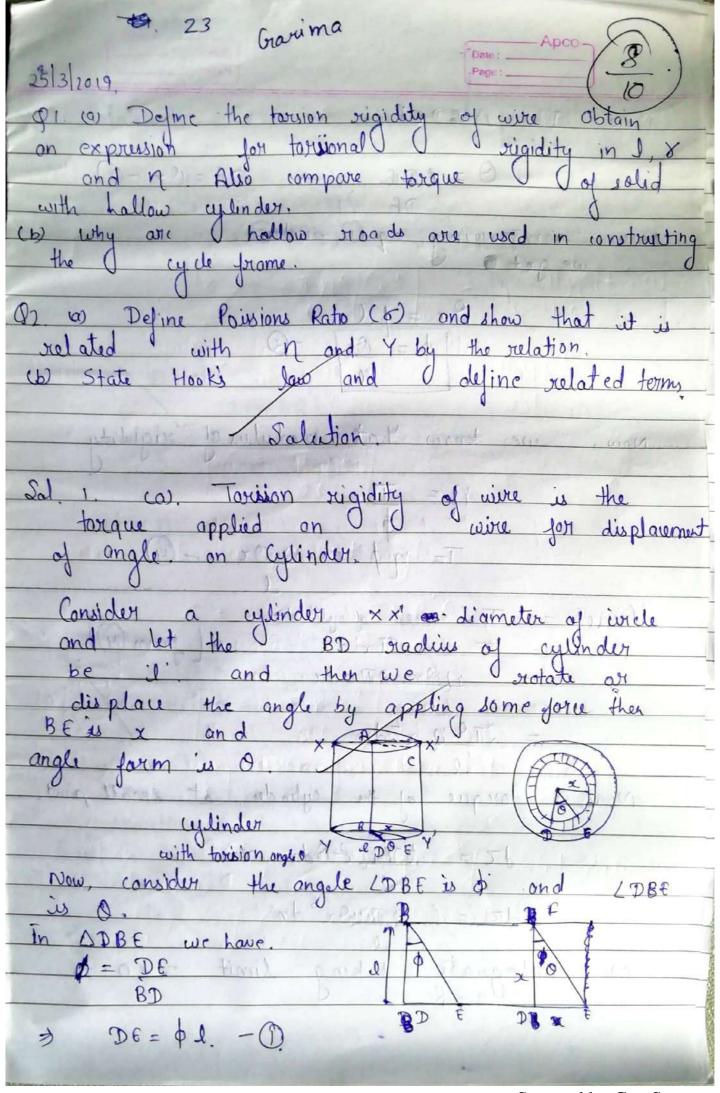
+4		
	इसमें कमाड़ा, मार्च, द्वीउस, मिनलेठड,	1
	वारिटक, गणराज्य, सीविमत्सं पा	
	रूस, नीड, मेल, हैमकाक, डेवदार,	
	The Files Addition of addition	
	भारे सिटवर, उग्लस फर, बल्पाउन,	
	वास् प्रा गीनर आदि उसमें से हि	
*	वमा के अव में महत्वति हैं।	
	and the time has the more	
=)	निर्मा के लाज्म न	
	10th Title Land what of Jun Bill	Š.
1.	Alex Color of the color of the	20
3	अध्य पदार्थ =) भागव खादीन सम्म	
	A doll so the state	
	ि ०० कि तिमान वर्ग स्वामे के लिए उन्हीं	
	मिर किनाम् है। अर किनम्	
	35/H 5 13 5/1- 9/10	- 4
2	वस्त्र भी गलारी ने में में में में में में	
	डिसे क्षेत्र देशम की वरह	
	136 मार सारता किए जाते हैं।	
	11th toke 15 pet footst.	
32	मेट्या माल र वेगा में व हुत से उक्ती में	
2	में केटला माल मिलता है। पीमे	
]	क्रान्ड क्रान्स वाला विलय हिसिस	
	कागुन दिमासलाई, लाख	Î
	व विविध्या है । स्थापित विविध्या ।	3
	A DEN STATE OF A	
3	अंडी जिल्ला न बमां में अनेक एकार कि	
	वड़ी उपम है। जिस से	
	विविभाव में रिकार कि दवाईमी	-
	1014 12/12/12 d all 3 PHOJ &	-
	310/10 x 15 /0/2 /103	-
		-
Manual Maria	11.	-

	Date: Page No.:
0	
	Destanment
	J'c2Talylu
	PAPH!
	JEOGIRAPHY STEOGIRAPHY
	Submitted to Mr Pardeep Sangwan sir
	Mr Pardeep Sangwan sir
	Submitted by Sumitra Bai
	Sumitra Bai Class - B. A2ndyr 4th Sem Roll No - 1419520020
Į."	ROII NO - 1419520020

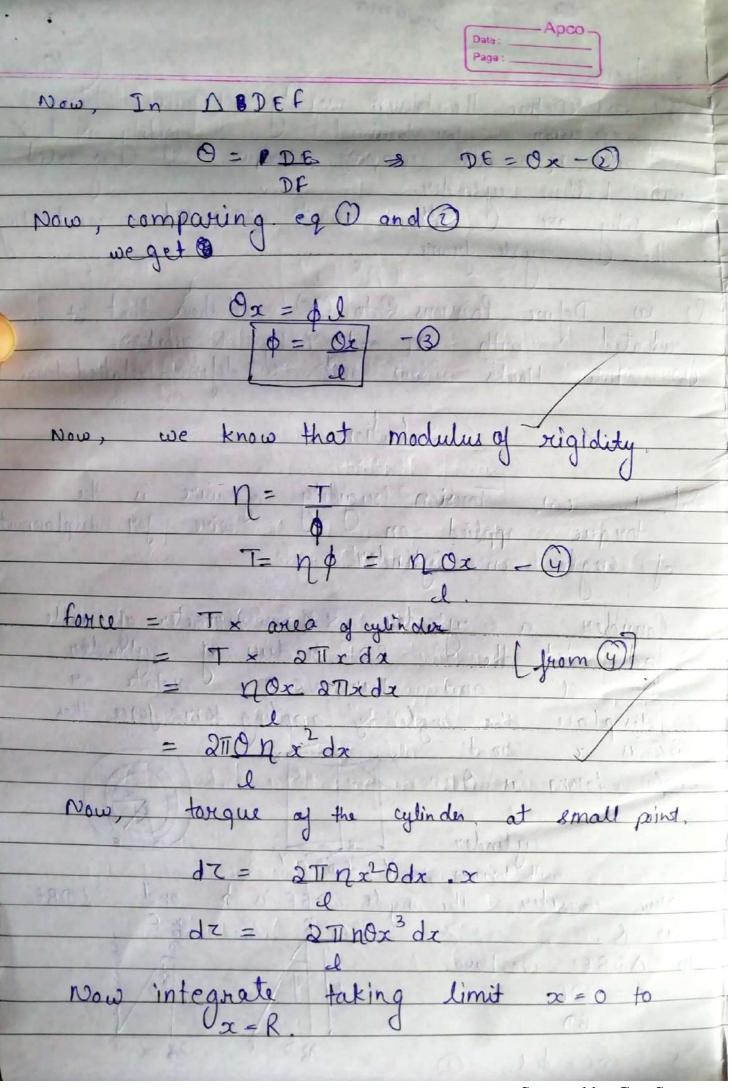


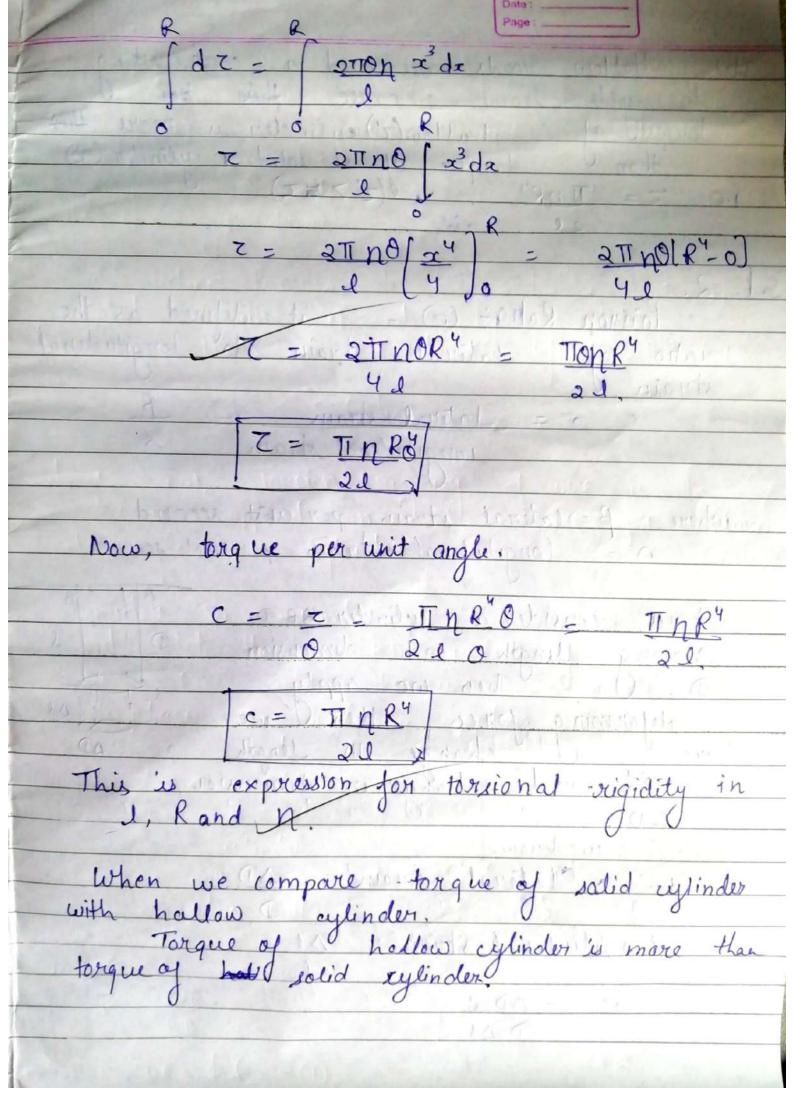
ही जाती है) जनस्थ्यमा द्वाप के कारक और प्रवर्माएँ - किसी हुनी क्षेत्र में जनस्वम के द्वाव का सवध पहाँ का आणिक सारकी के होता है। बमा कि ये कारकों से होता है। बमो कि ये कारकों के द्वाव की कोई ही सर्वमान्य परिश्राण प्रव तक नहीं प्रा स्की। शामद इसी कारण मोवागुळे ने सुझाव दिया कि जनस्वमा देवाव तीन कारकों की पारस्परिक अतः किमा का परिणाम है व कारक हैं -(1) हाल (संसाधन) पण जान की प्रामाशाँ उन कारकों की तीन अवस्थाएँ विशे होती हैं -(1) जिला जनसंख्या और संसाधन दोनों कम हो , पर जोगों की आकाँ मार्ट उच्च हों।

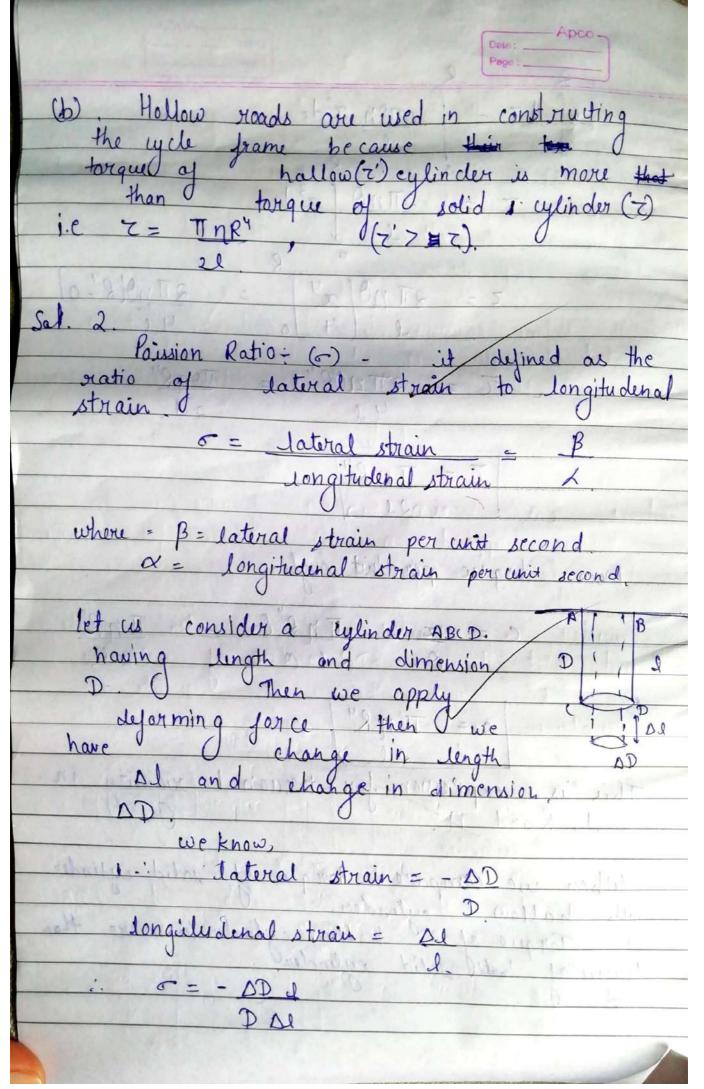


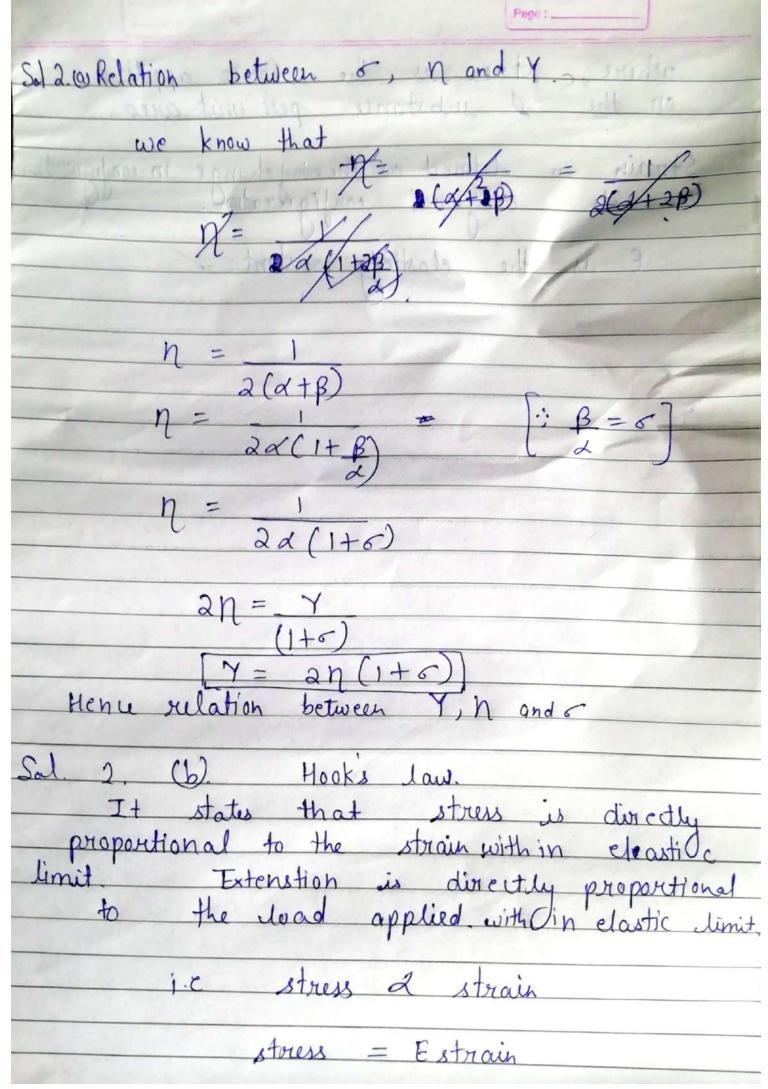


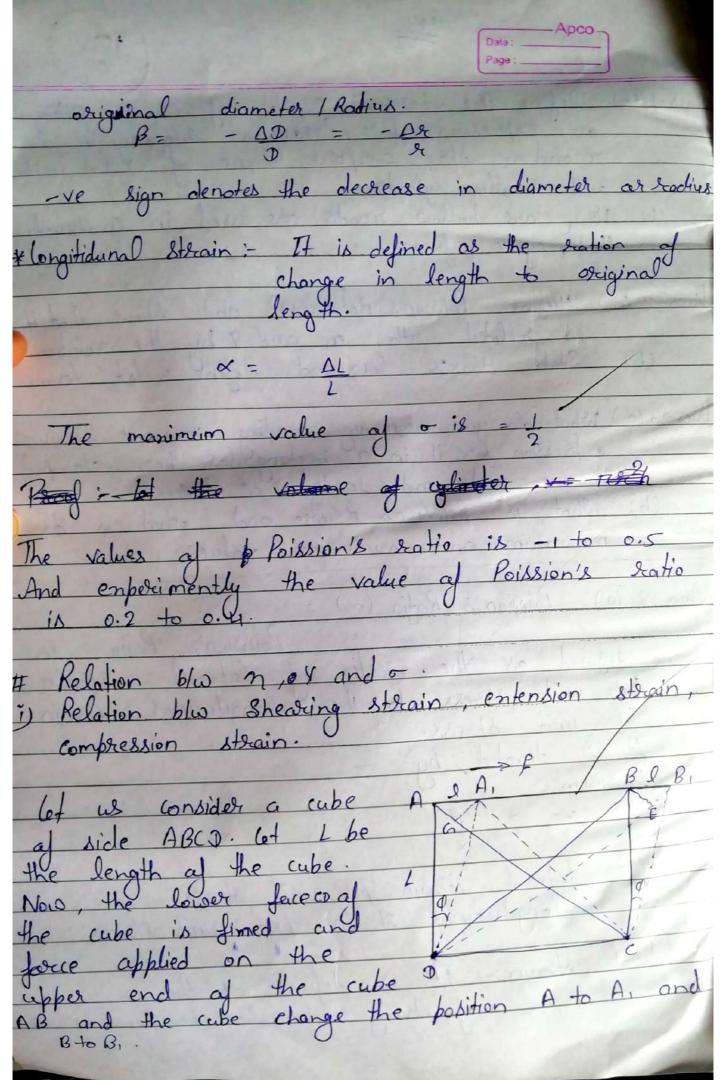
Scanned by CamScanner

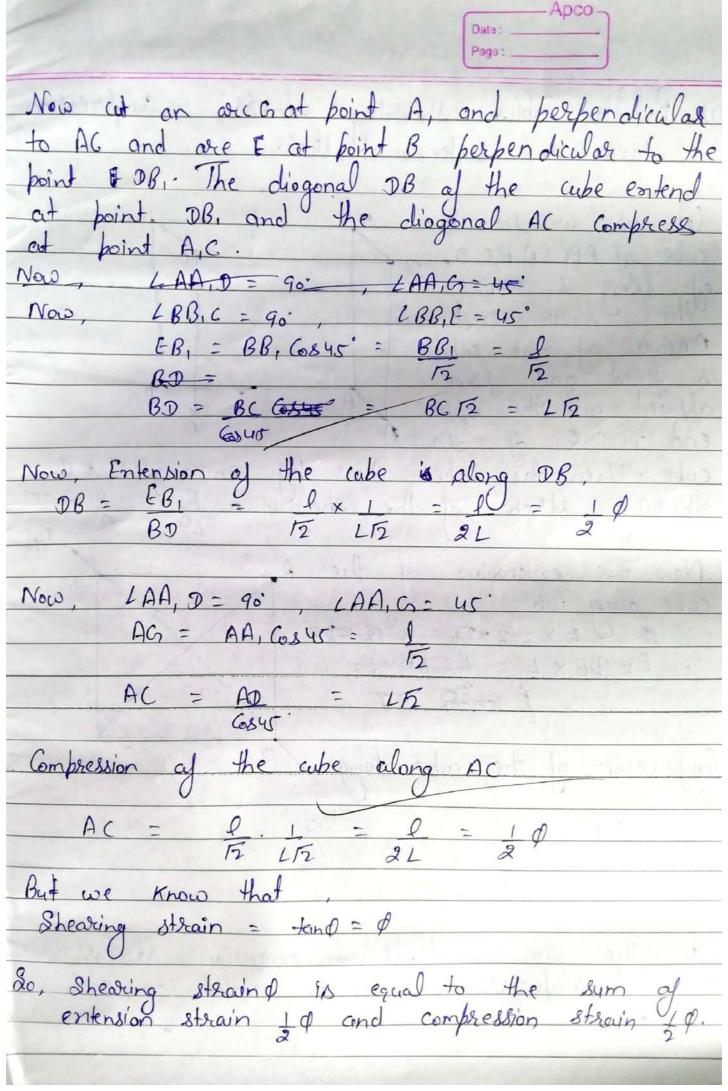


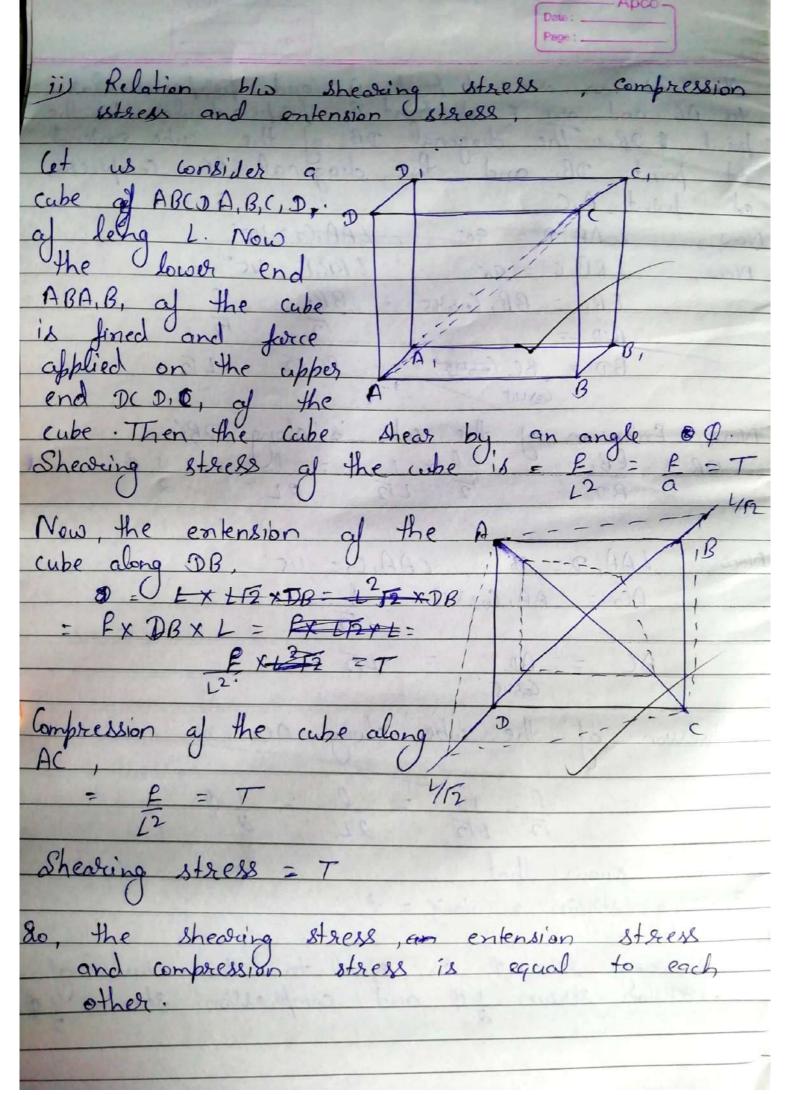




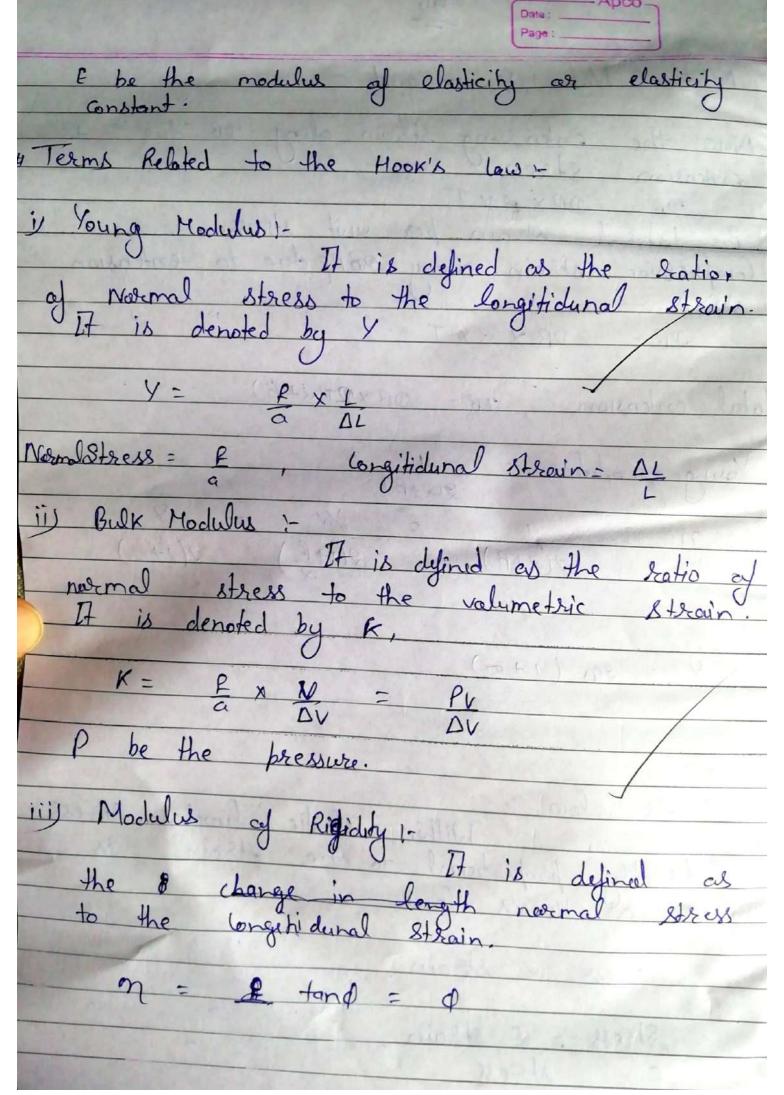




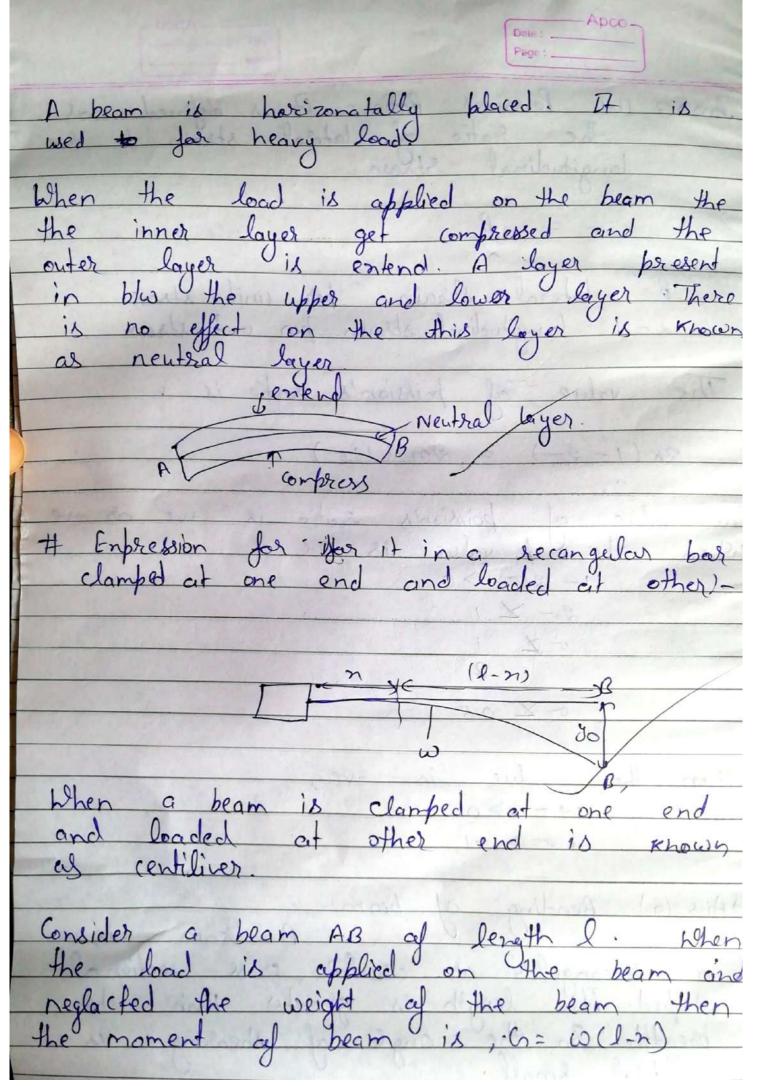


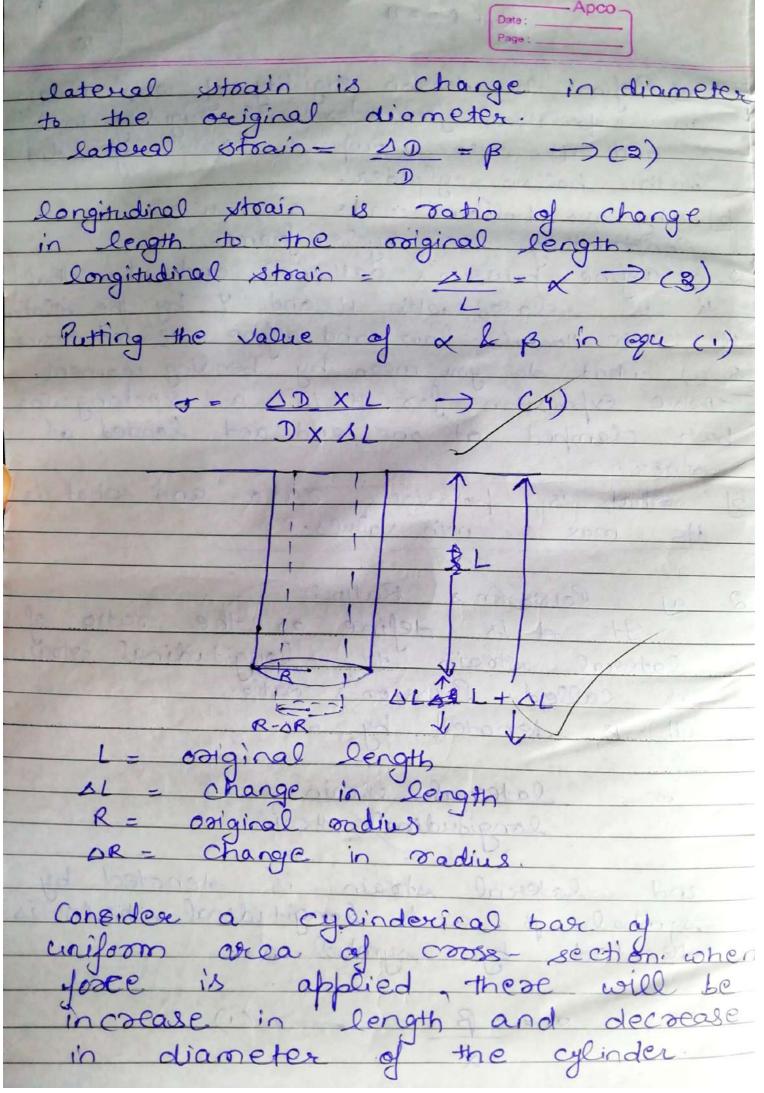


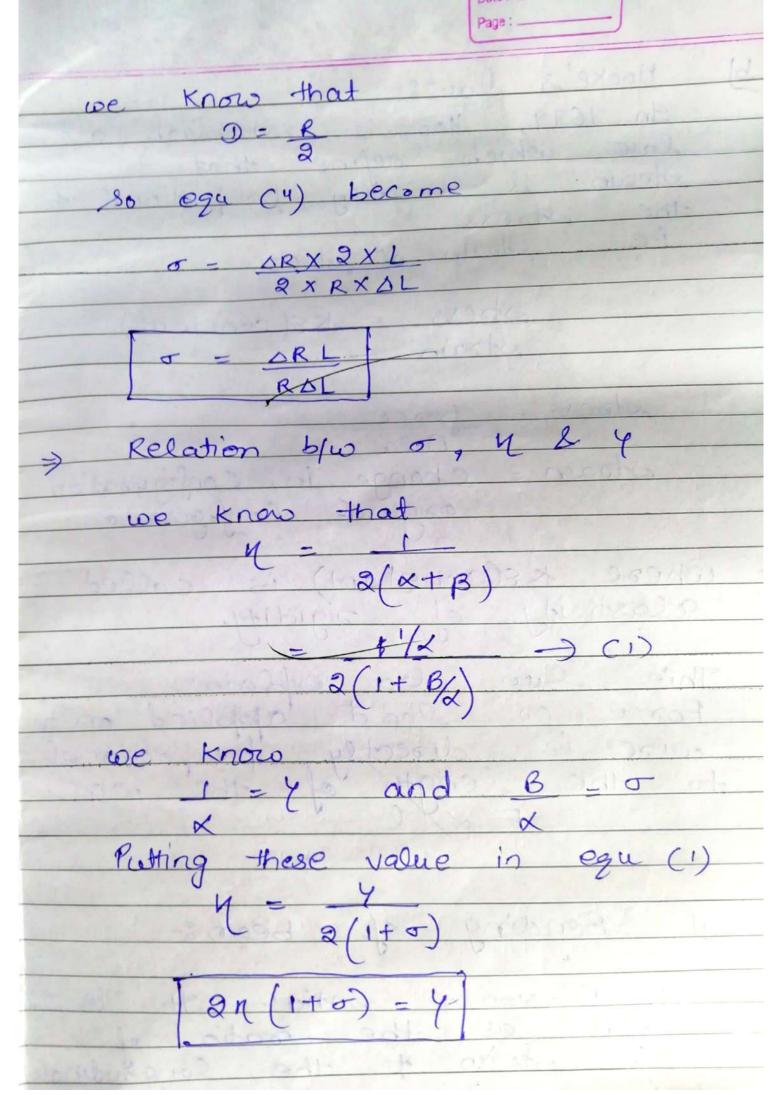
	44		Date:Apc	
Relation blw	y, n and	1 mills	on 1,1	id 9
DB = B = Lateral Compression Stress:	strain per	unit stra 98 Ac due	ess. to enter	to
otal entension		3 ×27(d+6	3) = 1	2021812
n =	1 2(×+β)	YX	2(1+0	-)
y = 2n	(1+0-)	N VA	A demoted	i di
HOOK'S S	Within	elastic	limit,	Stress
nown as	propertional nook's law.	to the	strain	is
Stress Stress E -	0	- Anot		



Date :
Anso 3 (b) Poissions Ratio: It is defined as the statio cel lateral strain to the longitudinal strain.
B= lateral strain per unit stress d= longitudinal strain per unit stress
The value of poission's ratio is =
The value of poission's eation is the ob-re When the produce is the
2- × 1 -× 1 -× 0.5
When the value is -ve, 1+0->0
a recongular ar circulal cross-sectional shaped. It's length is greater than its breadth. So the angle of shearing is neglibilal small.





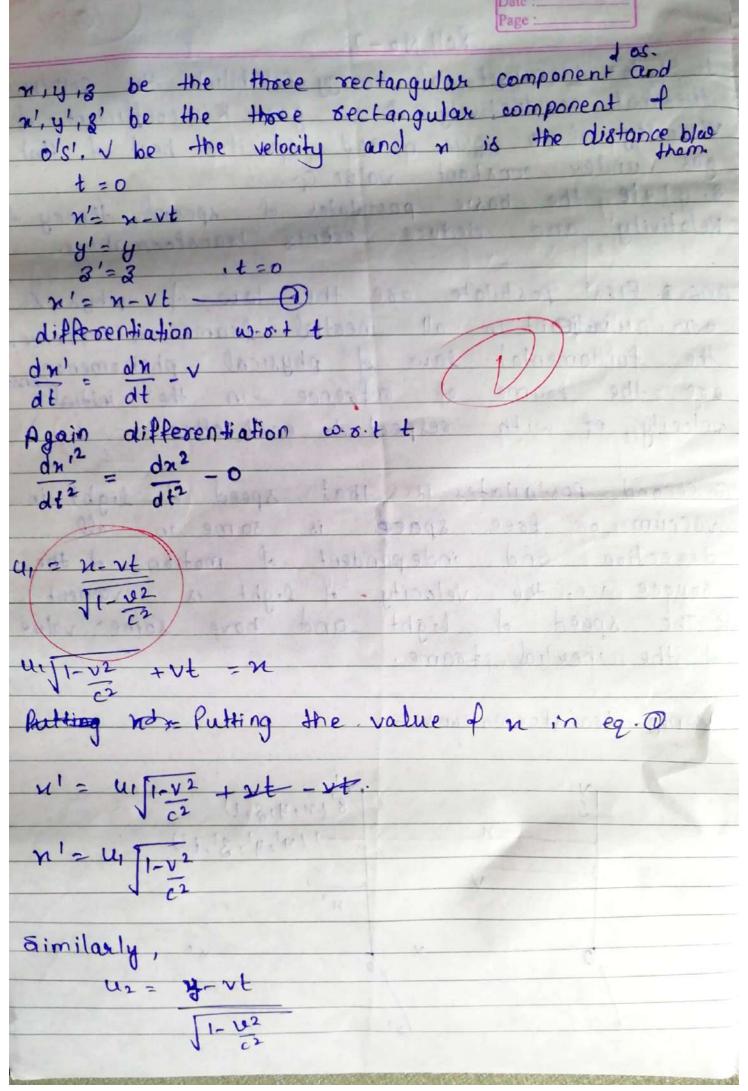


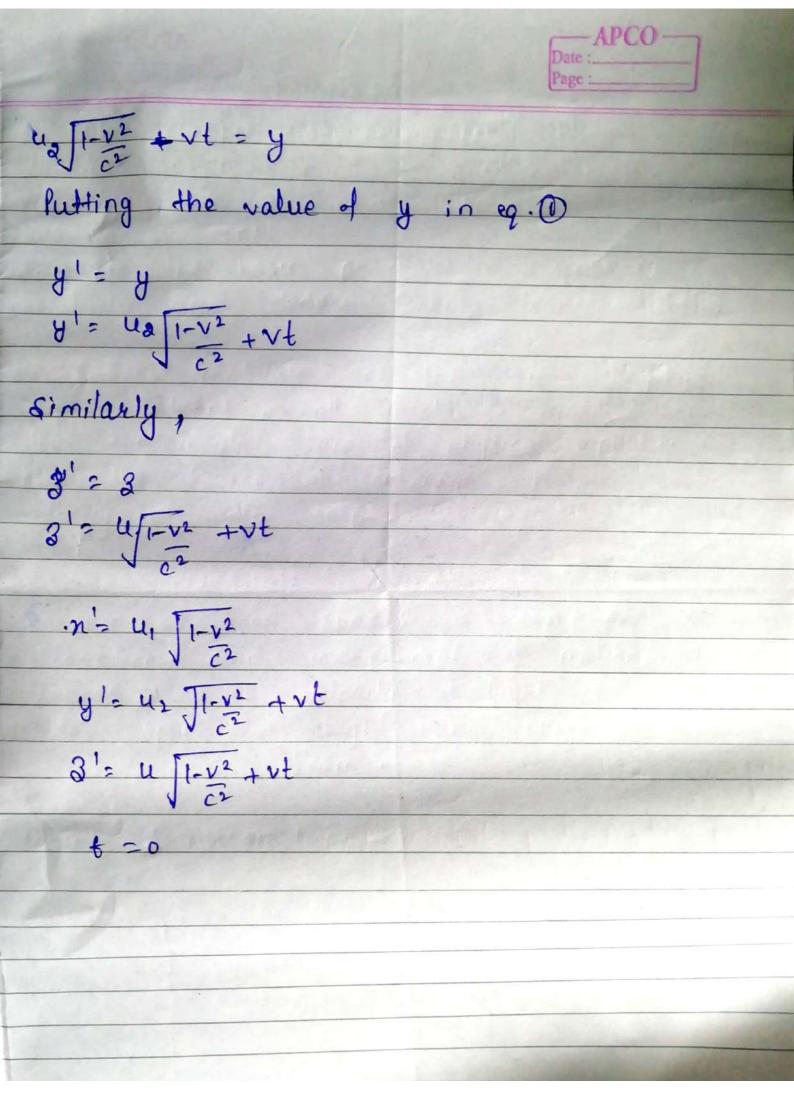
Hooke's laws-In 1679, Hooke's establish a law which define that storain is directly proportional to the stoess. i.c stoain & stoess stress = KE(constant) strain stoess = Force rold gritoles stown = change in configuration original Configuration where ke(constant) is called clasticity of sigidity. This law also explain!

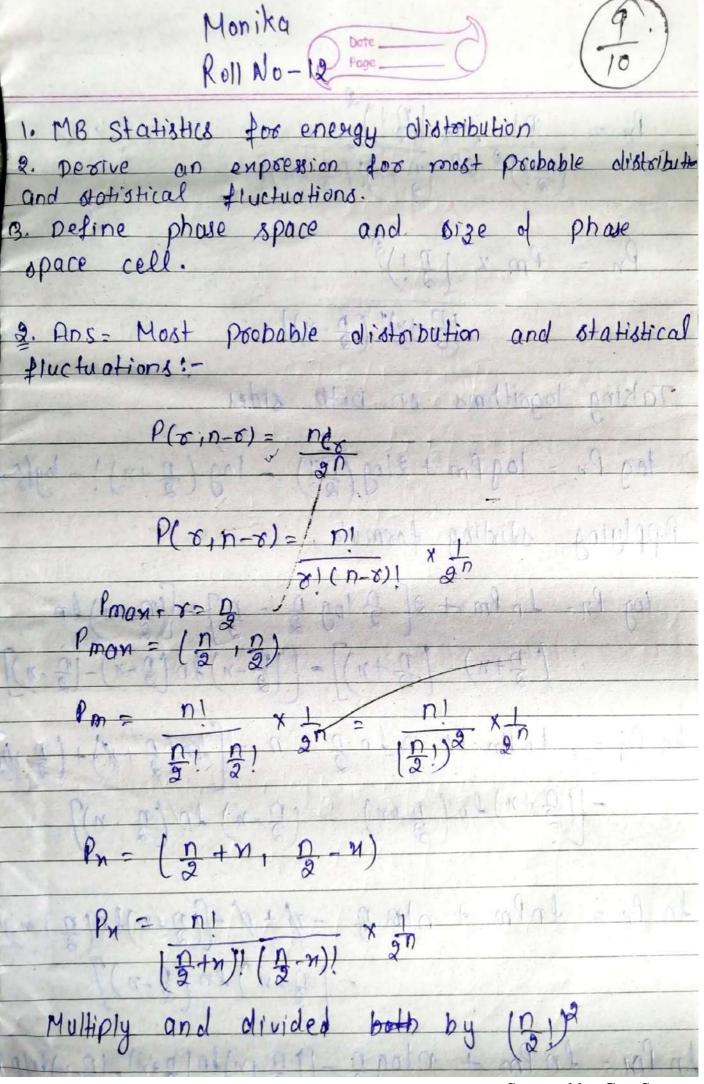
France or load applied on a wise is directly proportional to the length of the wise, 3 of Bending of bears: 3 by Poission o satio! - 9+ is define as the ratio of lateral strain to the longitudinal stoain.

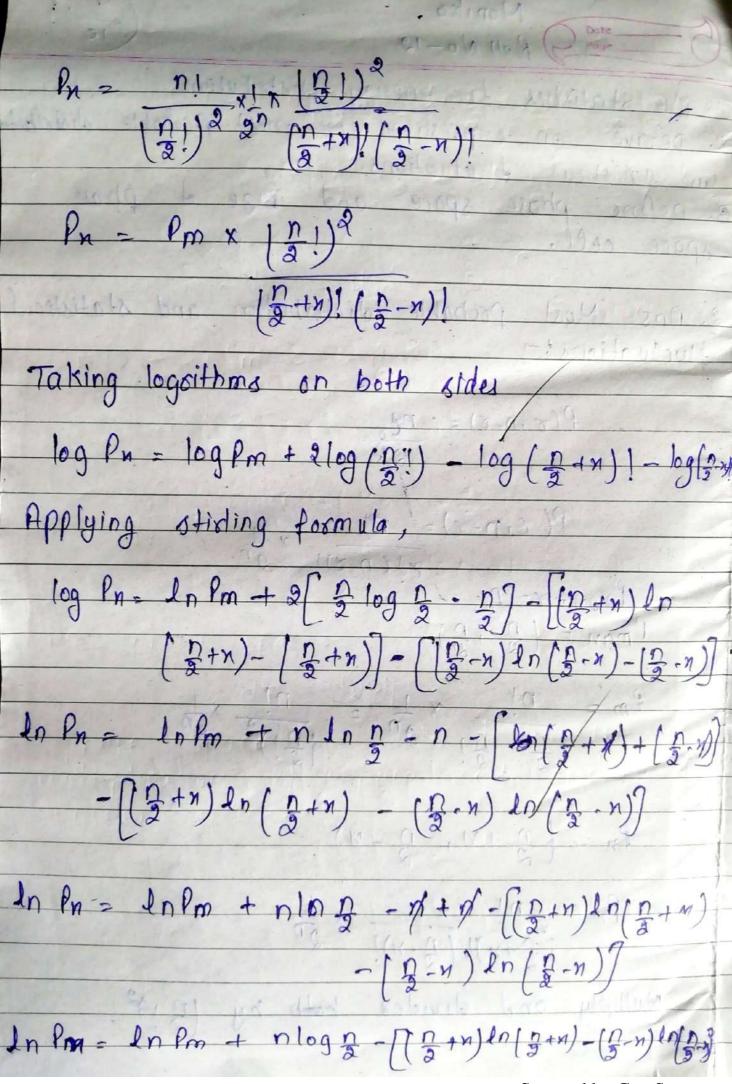
Roll No -98 1. State toansport of energy. Estabilish the Rel blue theomal conductivity of a gas k coefficient of viscosity of a gas n and specific heat of that gas under constant value Cy. a. state the basic postulates of special theory of Relativity and deduce Loventz transformations. Ans= 2. First postulate are the law of physics are intradient in all inertial frame of refrence in the fundamental law of physical phenomenon constant are the frame of refrence in the initial velocity of with respect to each other @ second postarlates is that speed of light in vaccum or free space is same in all disection and independent of motion of the source i.e. the velocity of light is invarient.

The speed of light and have some value of the inextial frame. Losentz transformationsi-8'(n,y,3,t) -) (n', g', 31, E') n

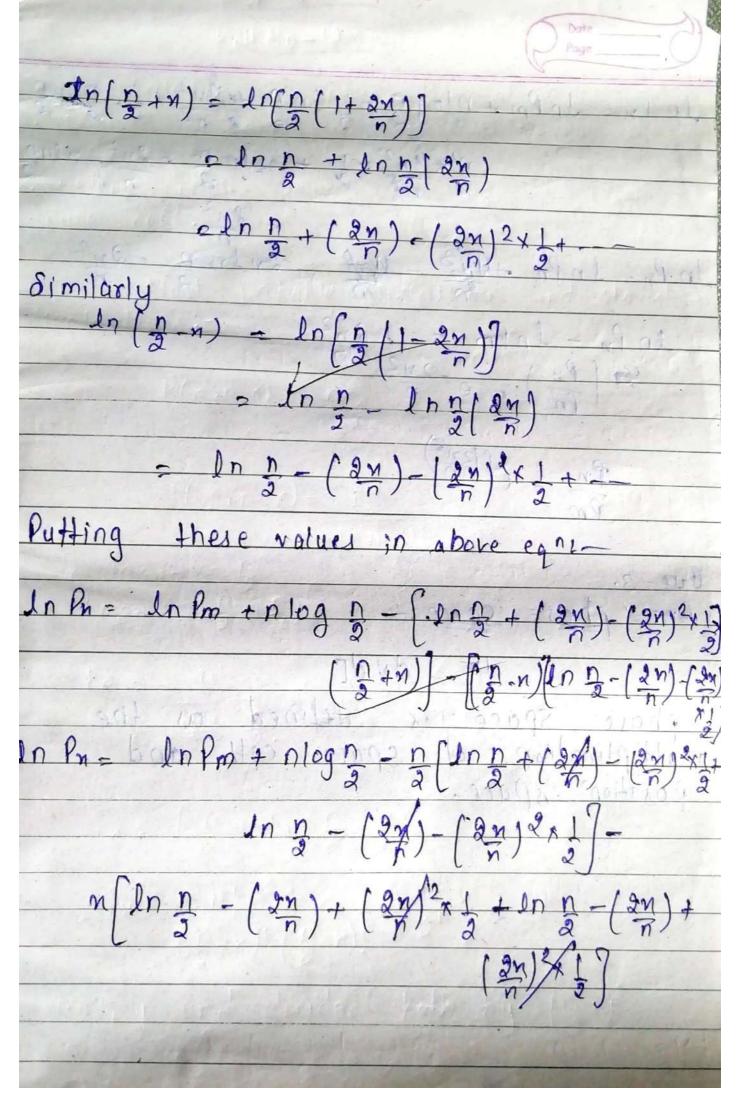


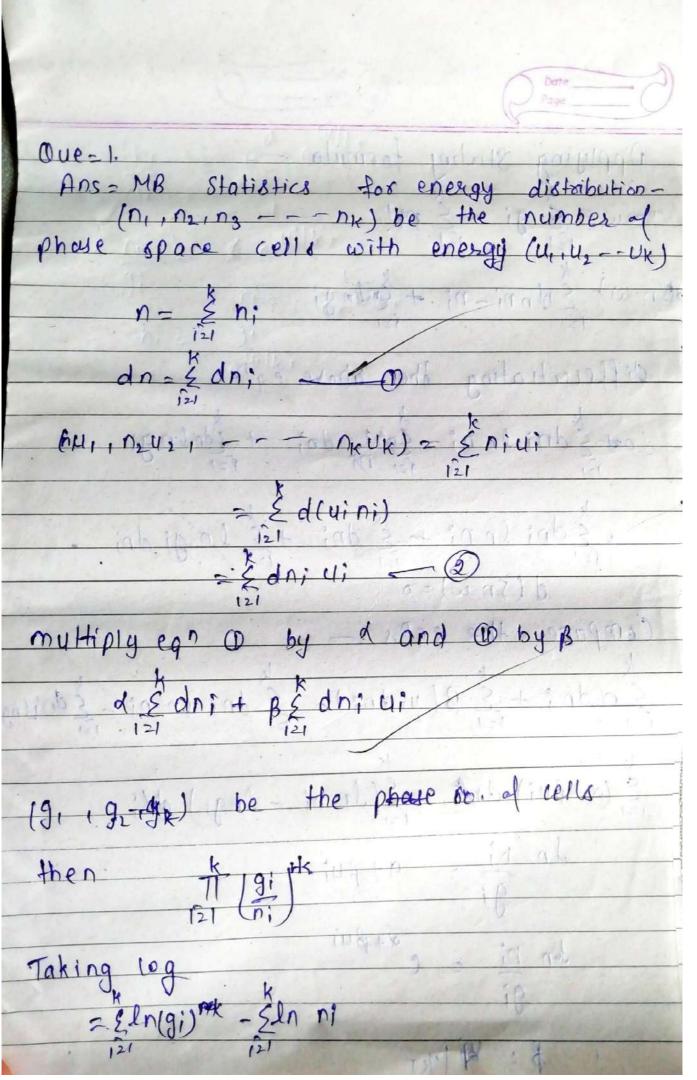


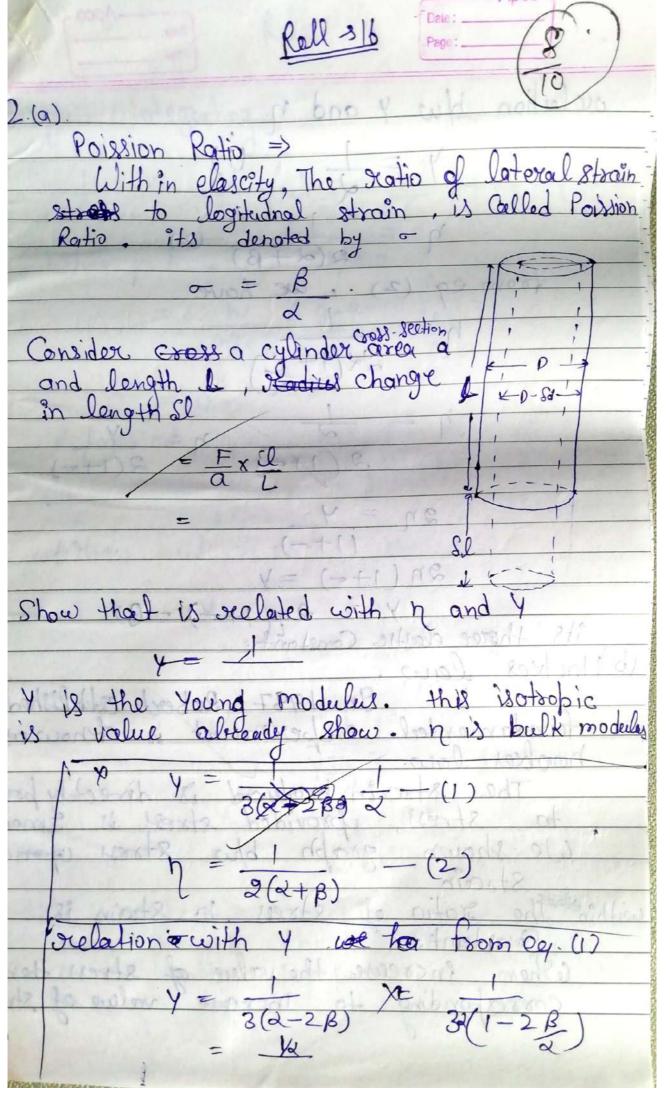


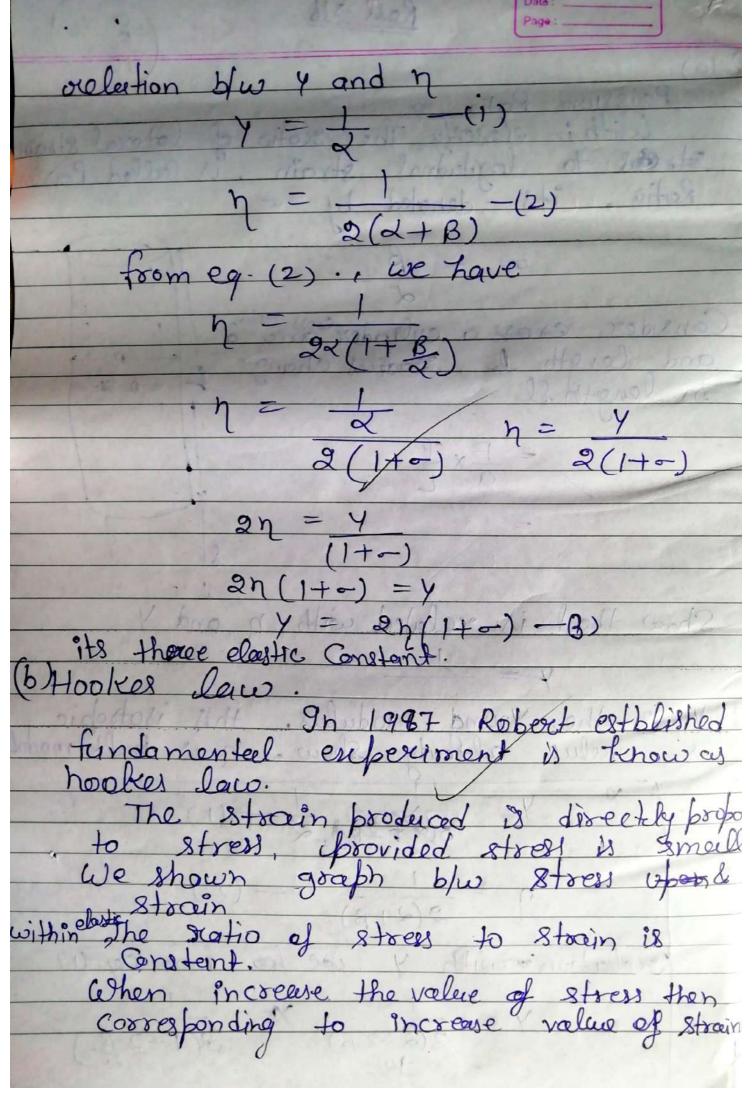


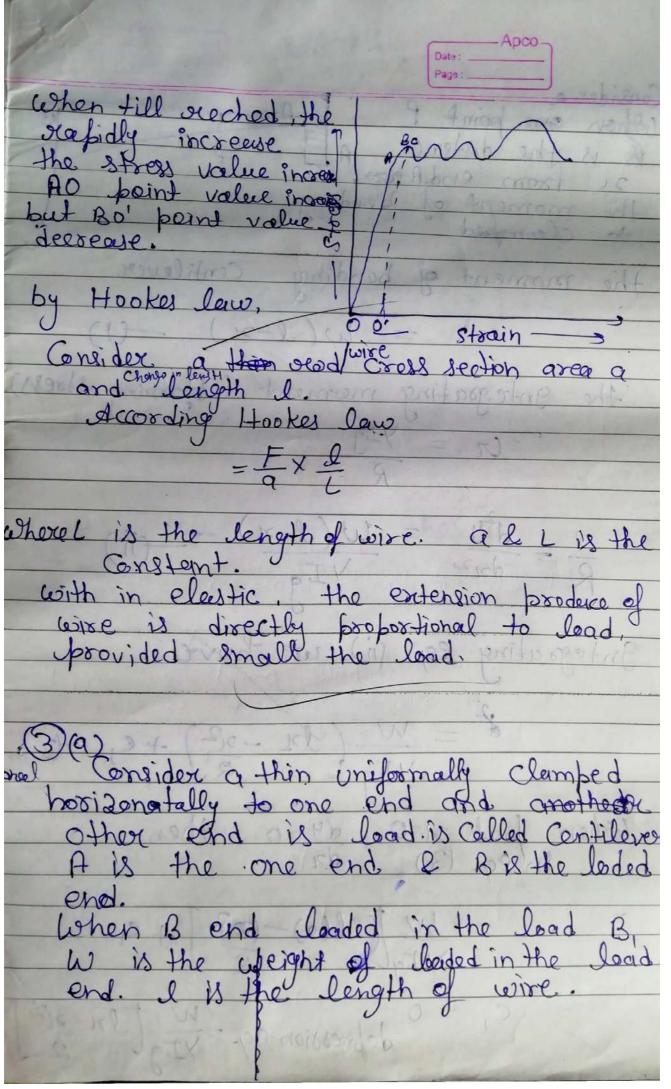
Scanned by CamScanner



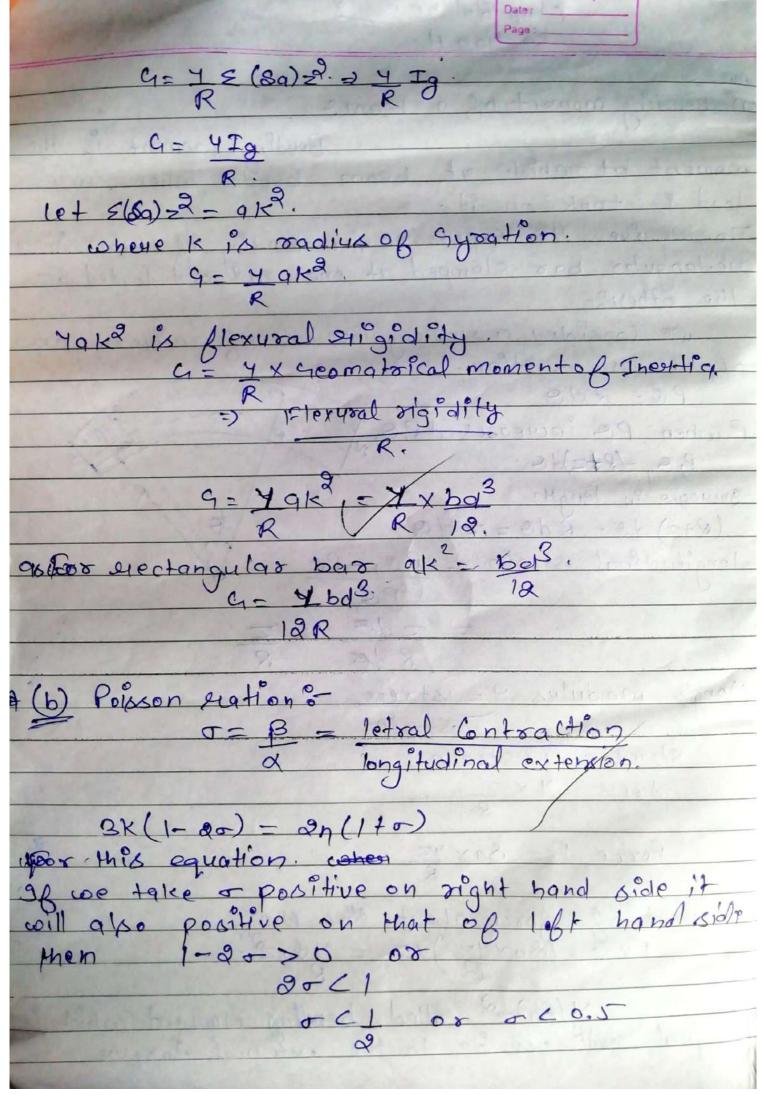


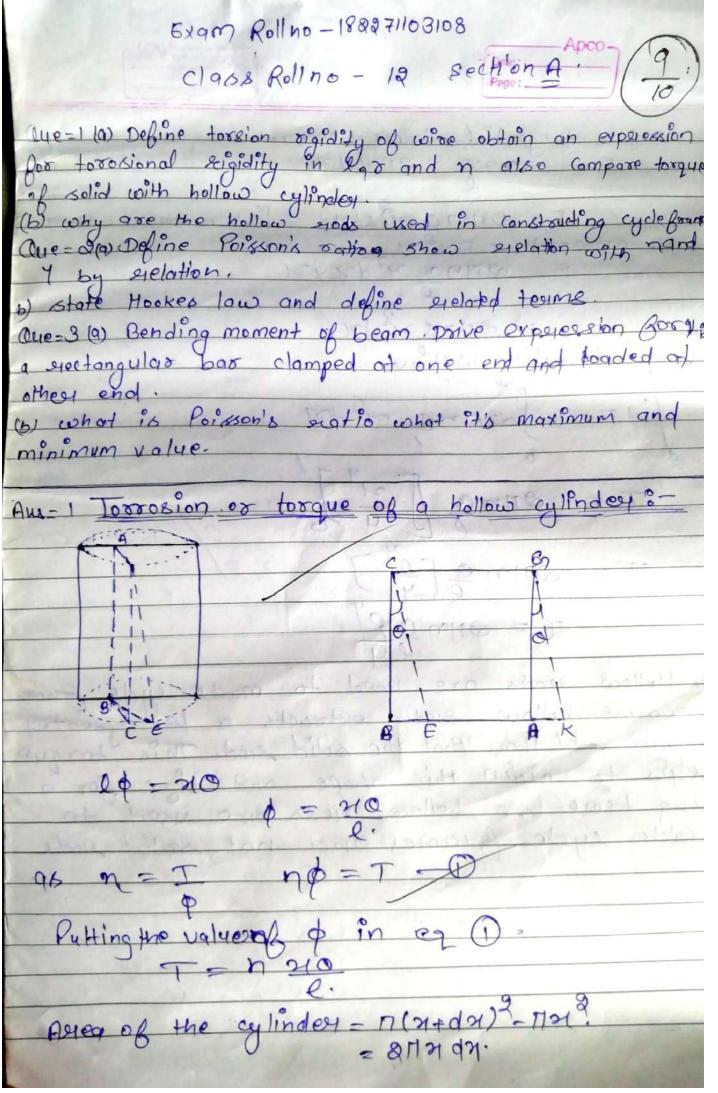


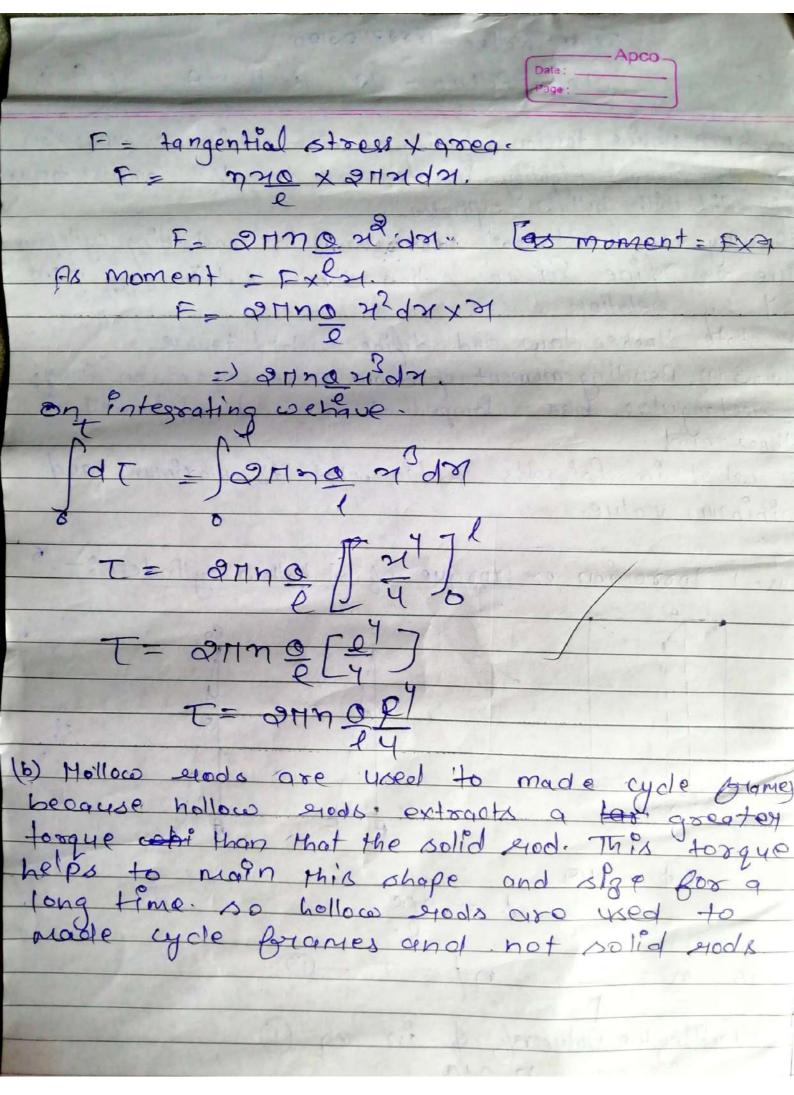


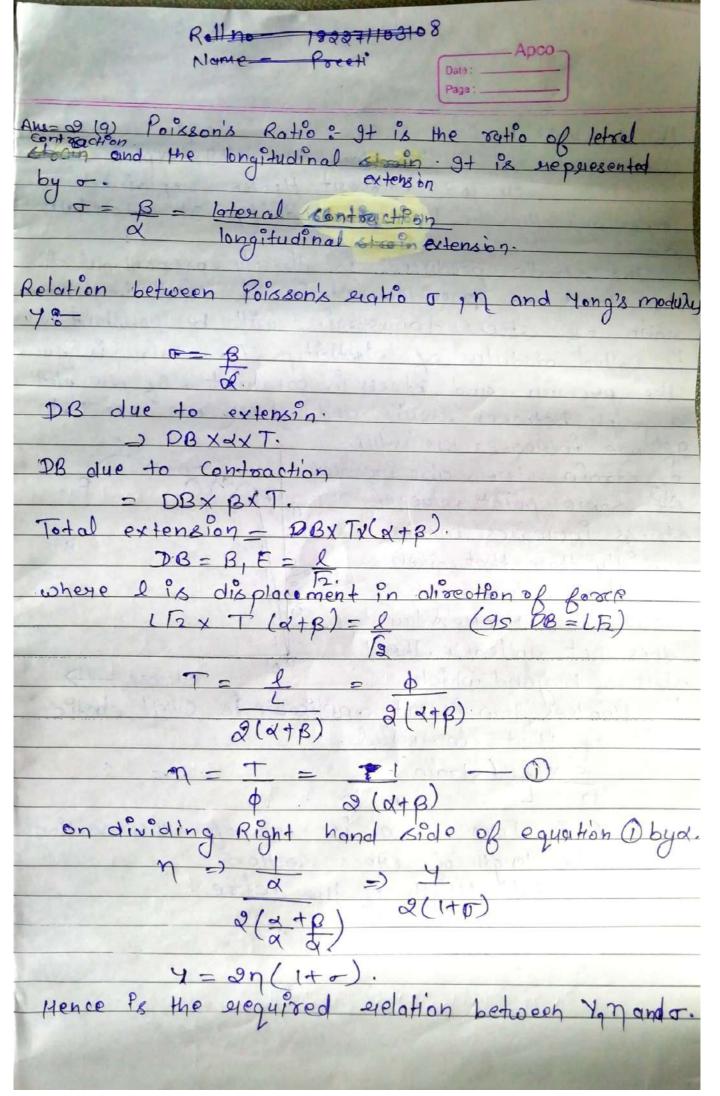


Exam Rollno - 00
Class Roll no - 13 Section A. Dete: Page:
Cooling A:
-SP (4101) H
AW = 3
(a) Bending moment of a beam?
Bending moment is the
moment at which at beam bends when some
lead for took on it.
He others.
rectangular bar clamped at one end and logged at
me consider a spectangular par of uniform grea
of chors-section.
Pa-Rdo
Puben Por incheases at P. a. N. P.
P, a, (Rez)do.
grusease in length
(R+2) do - Rdo = zdo
longitudinal strain = PO, -PO
Pald
= 2 de 9 = 2
Rdo R.
Yong's modulus y = stress Stogin
Steress = Yx stoaln.
stren - 1x =
(= 1) /A - (= 6 -1) /A
Force F = 80x 42
the area to an antiple of a state
Moment of force about line Mine Mine.
P = Raz
3.776
equal and opposite to the external torque
equal and opposite to the external torque

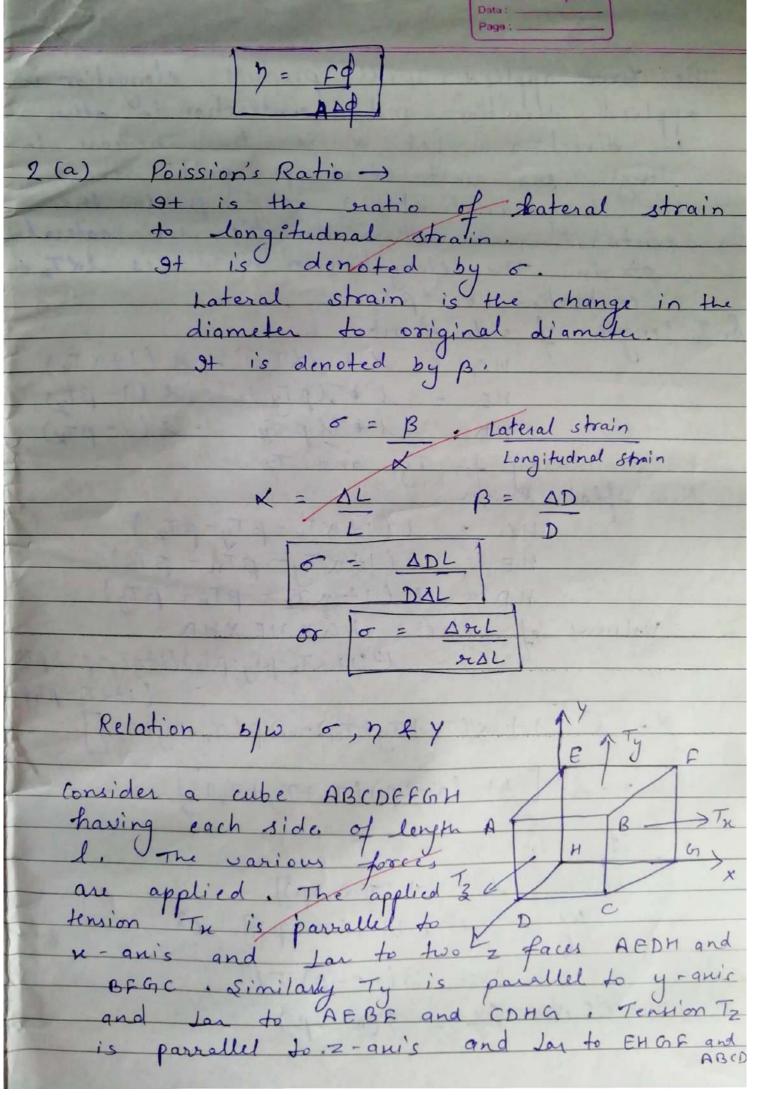


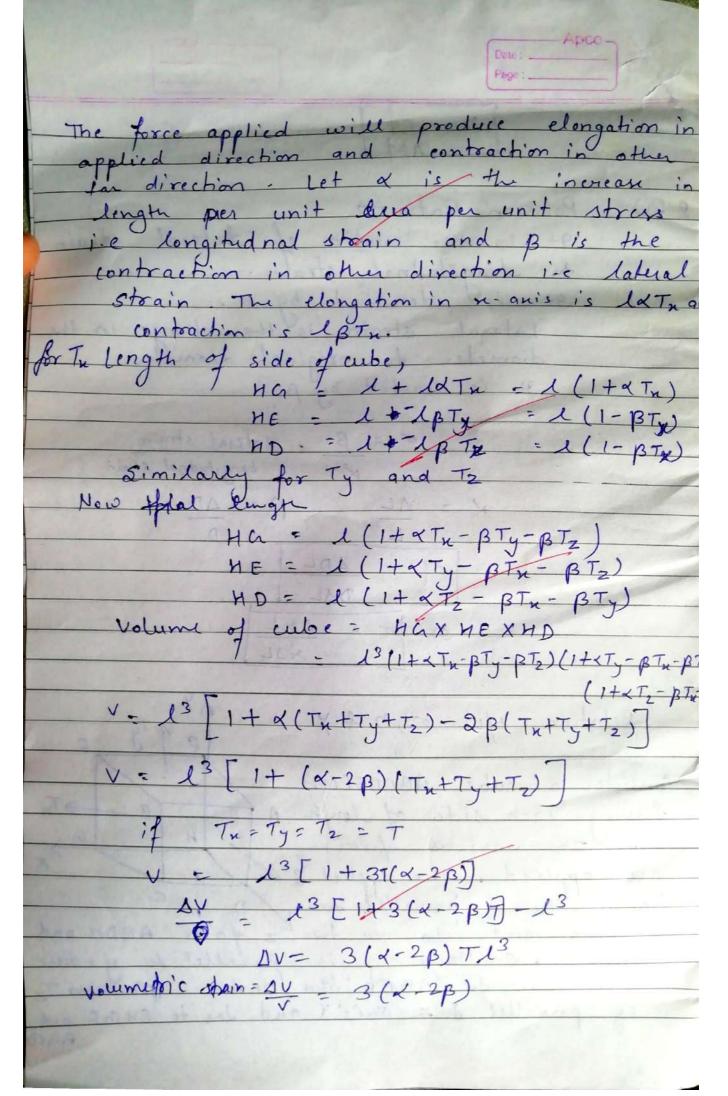


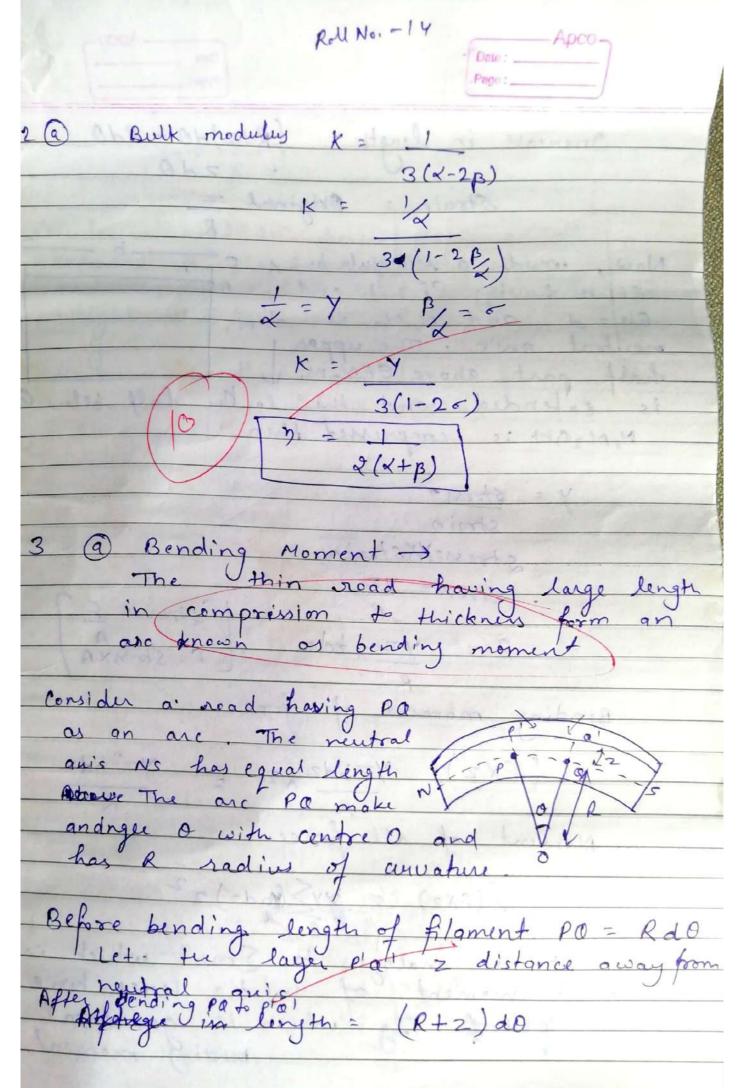


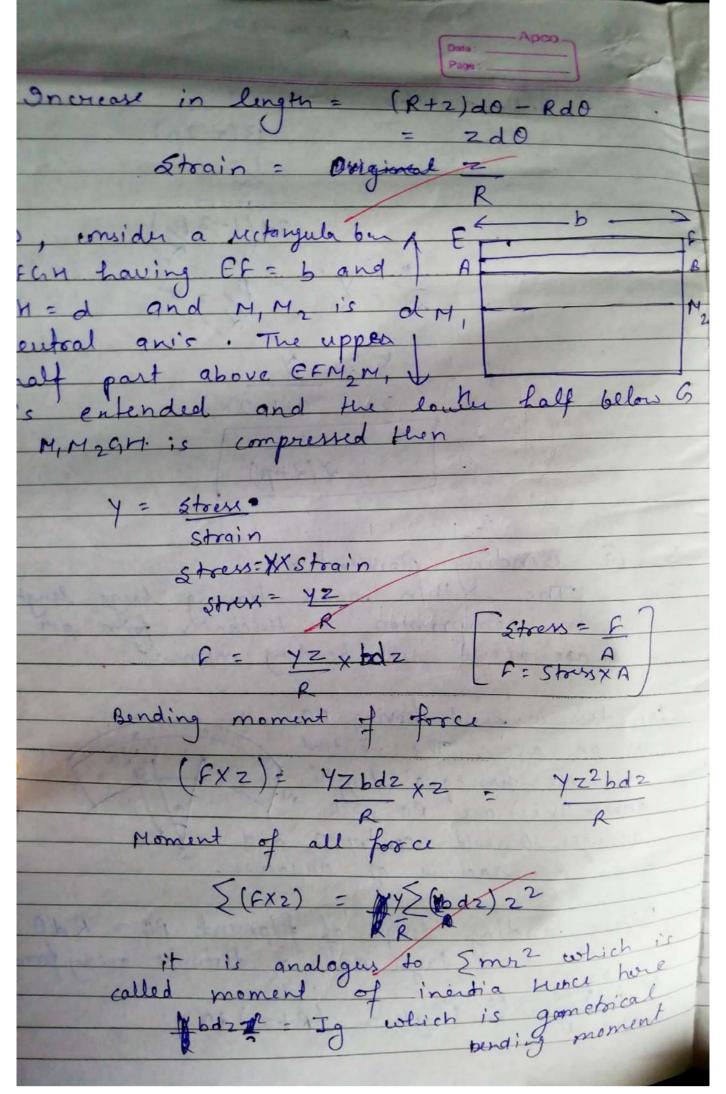


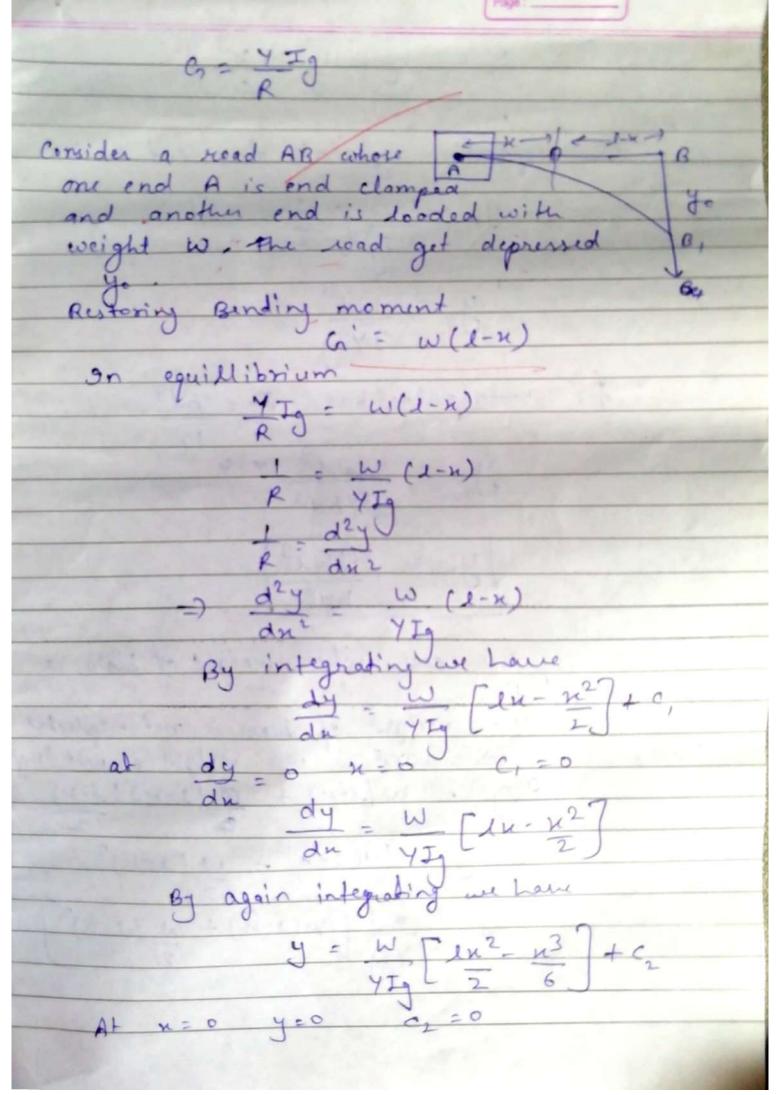
Date:Page:
1. Young Modulus (y) > g+ is defined as the ratio of normal stress to longitudinal strain.
Y = Normal Stress Longitudnal Strain Y = FL ADL
where $F = force$ applied $A = Area$ $L = original$ length $\Delta L = change$ in length
2. Bulk Modulus (K) -> 9+ is defined as the volumetric strain per unit normal stress.
K = Normal Atress Yolumetric Strain K = FV
$ \begin{array}{c c} \hline AAV \\ \hline K = PV \\ \hline AV \end{array} $ $ \begin{array}{c c} \hline AV \end{array} $
Modulus of Rigidity (7)
Modulus of Rigidity (7). 9t is defined as the shear stonin pur unit tangential stress. 7 = Tangential stress Thear stonin

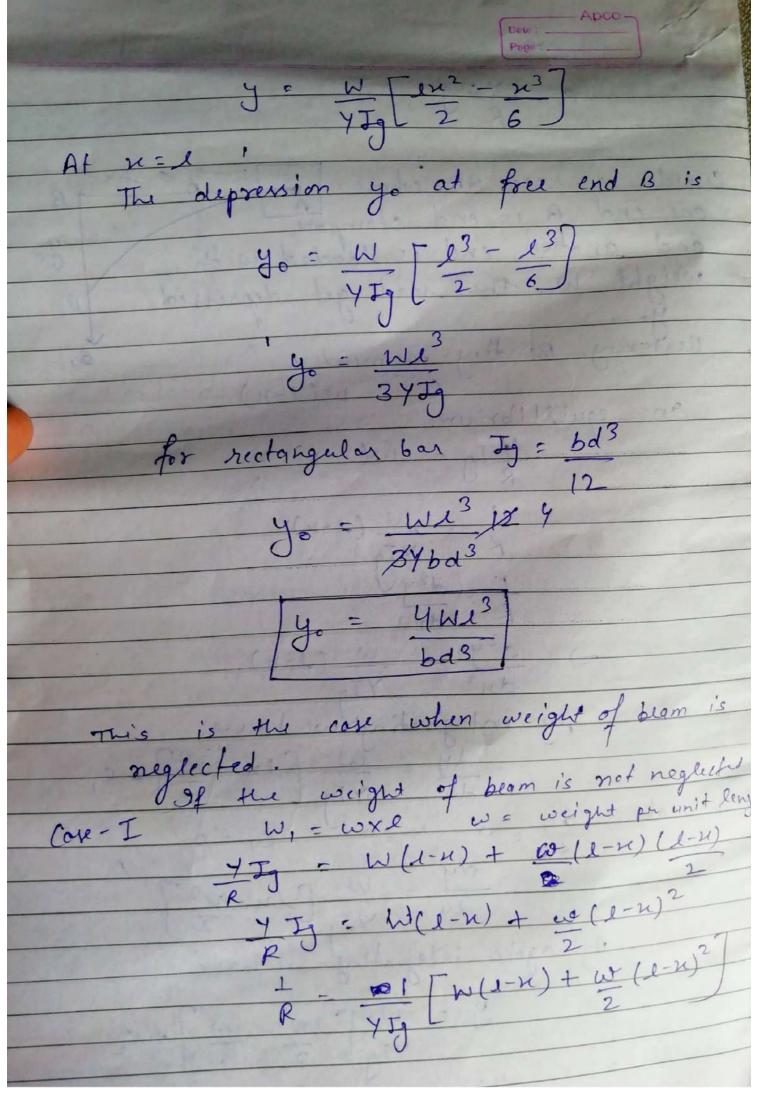












Nome > Treeti' Rollno > 40
Oue (1) a) Define the tossion signality of whe obtain an expression for tossional
signidity in les and of Also compare torque of sold with bollow cylinder
signify in l, ond n Also Compare torque of sollow with hollow Gylinder. b) why are hollow - todo are used in Constructing the Cycle frame:
Define Tolssion Rotion (o) and show that seloted with n and x by the oclotion
1) Deline Hooks 'low and deline reported terms
3 a) What do you mean by bending Moment
Jerive expression for it in a Jectangular bar clamped at one end and loaded at other.
b) What is the vous ions ratio and what is its max and min values.
has the second of the sand of both
per unit stress to longitudinal strain
per unit stress.
3n(1-20) = 2n(1+0)
when the positive
APP S

