STUDENTS ASSIGNMENTS Departments of Science & Commerce 2021-22



GOVT. DEGREE COLLEGE: RAYACHOTY DEPARTMENT OF ZOOLOGY

ASSIGNMENTS - ACADEMIC YEAR: 2021 -2022

Name of the Lecturer: Dr.M.Muniya Naik

S.No.	Date	Class	Topic
1	08-4-22	I Bzc	Golgi Complex.
2	17-1-22		Nucleus.
3	08-4-11	100	Ultra structure of Animal cell.
4	19-2-22	_	Endoplamic renculum.
5	08-4-12	D BZC.	Geneinteraction
6	20-3-12	II BZC	Polygenes
7	12-04-22	il Bzc	Chromosome,
8	17-3-22	11 1320	Multiple alleles.
9	8-4-12	BBZC	Mutation theory
10	8-4-22	BZC	Replication of Backeriophage
11	2-2-22	_	Sex determination.
12	8-4-22	IJ Bzc	Lethal gene.
13	5-3-12	1 Bzc	Ribosomes.
14	8-4-22	D Bzc	co-dominance - Incomplete domi
16	3-3-22	DS SC	Mycoplasma.
17	3-2-22	BRC	prokoryotic and Eukaryotic cell
18	8-4-12	-	Viruses.
19	8-4-22	D BZC	Viroid.
20	20-3-22	11 B20	Lysosomes.
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COMMISSIONERATE OF COLLEGIATE EDUCATION GOVERNMENT OF ANDHRA PRADESH





ZOOLOGY

(UG courses)

GOVERNMENT DEGREE COLLEGE RAYACHOTY, ANNAMAYYA (Dist.)

DEPARTMENT OF ZOOLOGY

Name of the Lecturer : Dr. M. MUNIYA NAIK

M.Sc. M.Phil., Ph.D., CSIR-NET.,

Name of the Department: ZOOLOGY

Academic Year : 2021-22

STILL DEDNIT ASSIGNMENTES - TRECTISTER

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intercross:	100	V	0-01
marcioss.	AaBb	^	AaBb
	mulatlos,		" mulattos

200	AB	ĄЬ	OB .	ab
AB	AABB Negro	AABb Dark	AaBB Dark	AaBb Mulatto
Ab	AABb Dark	AAbb Mulatto	Aa:Bb: Mulatto	Aabb: Light
ав	AaBB Eark	AaBb MulallO	aaBB Mulatto	aabb Light !!!
ab	Aabb	Aabb Light	aa Bb Light	aabb Albino

F2: 1/16 - 4116 - 6/16 - 4/16 - 1/16 Negro Mulatte Mulattaes light Albino Negro

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posses the genolype nabb. The Brutattos contain only pigments when Compared to the regro who has 4 dominant genes - A mailing of two such muttations. produces a wide variety of skin colour in-the offsparing, ranging from skins as dark as the original negro parent to as while as the the original albino parent. The result of this cross has been shown below: paients: Negro X Albino AA BB aa bb AaBb Mulatlo Cintermoliale pkin colour)

Eg: Skin colour in man:

For example humanskin adour varies in the population in gradation. It is called a quantitatives character. In man, skin colour is depend up on the presence or absence of pigment melanin black skin is due to the presence of melanin white skin is due to the absence of melanin.

skin pignentation in humans is controlled by alkast two or more inherited gerg. In 1913 Development observed that block colour in Negro is controlled by the action of two types of dominant geros. They are -A and the white skin is due-to-the presence of reassive gene a and b. . . a pure negro has a gerotype AABB and the pure while has cabb.

vacus results in F1 -offspring are intermediate blio both parents. These are called 'muttons'. Mulatlos.

poly*Genes*

the inheritance of 1000 or more non-alletic gene controlling a single quantitive character in a cumulative fashion is called multiple gene inheritance. These genes ore called pollygenes. The inheritance of polygene is called quartifative inheritance or polygenic inheritance.

Characteristic of polygene:

* polygenes for quantitative trails have following chara

tors.

* Each contributing allele in the series of polygenes produces an equal effect.

* effect of each contributing alleles are cumulative (or) additive

* there is no epislasis among genes at different loci * There is no linkage involved.

* skin colour, height, weight in man and intelligence are -the examples of polygenic inheritance.

Welcher the first to the control of

GOVERNMENT DEGREE COLLEGE

RAYACHOTY - 516269, KADAPA DISTRICT. (A.P.)



DEPARTMENT OF ZOOLOGY

(UG courses)

Assignment on

polygenes

Topic Submitted BY

Name of the Student:

class: Degree 2ndyr

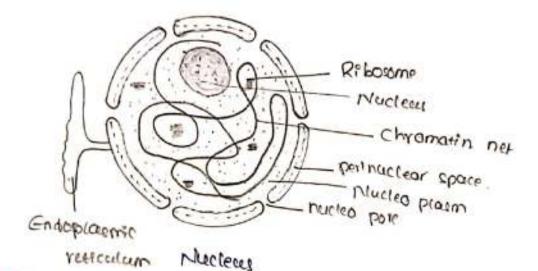
Date: 20-3-22

Academic Year: 2021-2022

and inner layer.

a Muchan cap | Muchaplann :- The nucleus is filled with transport 1 semi - wild , acidophilis substance brown as the nucleus or nucl

3. Chromatin Reticulum:—The nucleoplosm Conteins many treated like structures called chromatomata, which from a net-work called the chromatin reticulum.



Function of Nucleas :-

- * Nucleu contain the master plan for protein synthesis.
- * Nucleons Contains be associated with the formation of stoosomes.
- to the equithers of ribocomal RNA takes place in he received.
- * the nuclear required the centercle.

ructes are known as polynuctear cells.

Sq + Opatina.

the chape of the neccess is related with the chape of the cent. Generally the nuclear is spherical.

The cize of the nucleus is not constant. Generally nucleus occupies about 10 percent of the total cell volume. Nuclei vary in size from about 3 hm to 25 Jun in diameter depending on cell-type.

roteems of the unclean Mucleocytoplaumic incless volume of the Captaplaum - volume of nuclease

MP = Vn Vc=Vn

"Vn = Volceme of the neuclicen

Vc = volcume of the cottoplarm.

Structure :- The nucleus is compared of following four make. They are :

(1) Muclear membrane

(a) Muccean cap 1 ntucleoplam

(s) Chromation reticulum

(4) Mucreolus.

Muclear envolop: - The nacteur to reparated from the altoplan by a cemipermeable membrane called nuclear membrane. nicolear membrane is double layered namely own layer

NUCLEUS

Mucleus is the most importent part of the cells. It controls all the cellectar accellection. Co it is rethred to as the controlling Centre of the cell. Mucleus was that discovered by Robert Brown. The study of nucleus of nucleus is called baryology. The nucleus is present in all cesticaryoth cells. However it is absent from Risc of man and some lens cells of tage.

Generally, a cell contains only one nuclear. But some times two or more herclei are present. Based on the the number of neucleur, the cells are classified anto the tollowing types.

1. Mononaclean cela :-

The ceta which contain single nuclear. Each cetes are called mononcuclear cets. Eg:- Amoeta, a typical cell.

2. Binucleate cells: The cells which contain too neces

Eq : paremacium and cells of contilage and liver.

3 polynuclear cell !- The cell which contain many

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RAYACHOTY - 516269, KADAPA DISTRICT. (A.P.)



DEPARTMENT OF ZOOLOGY (UG courses)

Assignment on

NUCIEUS

Topic Submitted

Name of the Student: S. Nagermari

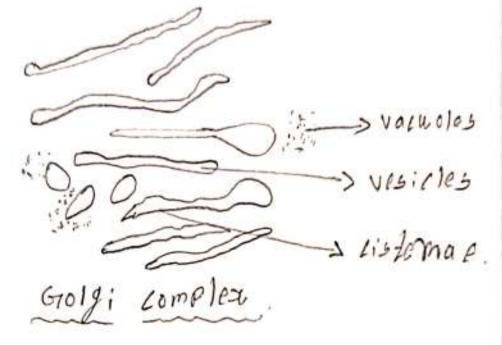
Class: Bodyear (Bzc)

Date : _____

Academic Year: 2021-2022

of the cisternal they develop either by budding or by confliction of the ends of the cisternal

the membrane of the Joy;
body is an used membrane and innilipia
payer and two outer protein layers.



functions of Golg; complex:-

- 1. The actoss some of spermal is developed from dolli comple a spermalage nesis.
- 2. goldi complex is involved in cell wall formation in Plant cells.
- 3. Gold: complex involves in the formation of plasma membrane in animal cell:

of about 20.30nm. They are arranged in parallel bundles one above the other on a golg; conflex the number of cistame various from 3.7 in a animal cells and 2 10-20 in plant cells. The cistame 15-20 in plant cells. The cistame

Hence the cistanae have consorted and concave surface. Listanae has two sides nomely forming face and maturing face.

The lonvex surface is the forming face Here new cistenae are added from endoplasmine reticulum.

These are large specious round sacs found at edges of cistarnal these are formed by the expansion of the cisternal in which the two menbranes are wider separated the cavity is about 60-2007.

These are small drop life strocture of about 40A in dia meter. These are closely associated with the periplely

GOLGI COMPLEX

Golg: complex was discovered by ram. 10 Jolg: in the nerve cells of born owl. The Jolg: complex has been variously named as Jolg: Jolg: complex has been variously named as Jolg: Jolg: apparates lipoeudrion dicoty some by Jolg: apparates lipoeudrion dicoty some by various workers. Generally the term dictyasme is used for the Jolg: complex of lower in vertebrate and plant cells.

Golgi complex is found in our evkaryotic cells exept RBC and speins of mammadus and absent in Plokaryotic cells. the Shope of the Jolgi complex waries from one cent to another. They may be in the from of rods, granules nesicles or network - Even in the same cent there are variations with functional stages.

structure:-

under the electron microscope, the gold: apparatos cheppers to consist of thores components they are: 1 cisternee 2 -valuales 3. vesicles.

1. cisternae: - These are flattended fluid filled sais separated by intercistence space

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DEPARTMENT OF ZOOLOGY (UG courses)

Assignment on

GOLGO COMPLEX.

Topic Submitted BY

Name of the Student: B. o bolesu

Class: BSC .BZC Ind year In SEM

Date: 09-04-2022

Academic Year: 2021-2022

the support and development of life. In addition to nitrogen gas and oxygen also contains small quantities of organ (0.91.) and corbon dioxide (0.03%) and traces of inert gas ozone sulphurdioxide Ammonia Carbon monoxide and a varying percentage of water vapour. 1 3 - 26 6 10 15 - 10 4. Birosphere: - 3n addition to the three constituents of the environment the biosphere namely the living coganisms around man play an important role in influencing him the plants play an important levely of the atmosphere and the woods they exert a profound influence antife Biopiphere also comprises of the organizms that are exential as well as harmful to humans. These organisms include plants species such as algae and fundi and bacteria viruses and microbes

De the lithogethere: By - the vorme indicates the locks. Had bear the earth

Constitute this part of environment

However the top byers of the corth mainly
from this part of environment of lithogethere

there top layers ancients of several metalic

silicates and other minerals and humas which
ix the vital aganic part that is tomed
from the decayed plants and animals

9) The hydroxphere: - The development of human civilization and the recognition of the importance of water almost began at the some time. Water is an expential as foot for the Survival of livings beings. About 97% of the water available is in the loom of sea only 1% of water is good for human consumption.

3. The atmosphere: - The atmosphere is an impostait contains mostly of a elements:

Ni trogen and oxygen [78 & 21 in] respectively
these two elements play a vital role for

I What ix convironment 9 And explain the segments	1
A INTRO IN CHAIRBING STATE CONTROL STATE OF THE STATE OF	
of environment	
And the envisorment of mon compreses of the following	
: Segments	
as I'll and and it will a support lower of the Gooth o	ire
a) Lithosphere :- This is the upper layer of the Booth of	
the minerals and rocks, that long,	
from this layer	
Jan 130 getter in the second of the second o	
b) Hydrosphere: - This is the water that is on the	e
earth All sources of water viz the So	0
. The vi rivery and ground water are parts of	Ė
the segments	
The Head State of the state of	4 3 7 7
c) Atmosphere :- this is the air around man the gos	10
that from part of the otmorphere or	2
That Four full or the consend trade all is	
their influence on life are discussed under this	
heading	
- 1 × 10 × 211 . 12	Ď
DBiosphere - The trying organisms that from part of	ľ
men's envisonment are discussed in the	汐
or Biorphere! The trying organisms that from part of man are also envisaged in the	



GOVT. DEGREE COLLEGE: RAYACHOTY DEPARTMENT OF Chemily

S.NO	DATE	CLASS	TOPIC
		TII - 132.0	Environment - Segments

SI. NO	Name of the Student	Signature of the Student
1	G. proveen Kumar	G. Proveen kumar
2	3. Irfon Basha	S. Irfan Basha
3	5. AKbor Basha	s. Akbor Bosha
4	s. Yasar	5. Va 507.
5	B. Raghavudu	R. Rogha Vuder
6	B. Soi Kumar.	B. Sai kumas
7	M. Retioppa Reddy	m. reddoppo Peddy
8	N. Salish Kumar	N. Sallsh kumak U
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Signature of the Lecturer

Signature of the Department I/C



GOVT.DEGREE COLLEGE RAYACHOTY

Department of chemistry



G. proveen komar Name of the student

TIL BZC Group

BSC Course

1903 10633001 Roll No

Title of the Assignment : Fryivannent

prevention measures:
1) waste water management!-
waste water treatment consists of removing
-pollutants from waste water through a physical
chemical or biological process.
a orcen agriculture:
blobally agriculture accounts for 70% of water
resources, so it is essential to have climate friendly
crops refficient irrigation that reduces the need of water
orruen agriculture is also crucial to limit the chemicals
that enter the water
(3) storm water management:-
storm water management is the effort to reduce
runoff of rain water or melted snow into streets,
Lawns and other sites and the improvement of water
avuality.
4) Air pollution prevention:
Air pollution has a direct impact on water contamination
as 25% of human induced coz emissions are absorbed by
oceans this pollution causes a rapid acidification of
ow oceans, and threatens marine life and corals.
preventing air pollution is the best way to prevent
this from pappening.

Min in marine, dumping to a mil the marine decrease in the property of the contraction of the Every d'ay; garbage such as plastic ipaper, aluminum ,food, glass, or rubber are il deposited in to the sea · these items take weeks to hundreds of years to decompose, and thus they are a major cause of water pollution. 14 for their bour willing and and about it water pollution effects: mily of the transfer of this historia of to any and rung british by the in on this chieronments of the off the whater pollution truly harms biodiversity cand aquatic ecosystems the toxic chemicali can change in the exclose of water and increase the amount of minerals also khown as incutrophication. The retirent vehicles is intimided white 10 (2) ON humanchealth: + 12 1/11 20 11 12 12 15 16 16 water pollution has very negative reffects on public health. A lot of diseases results from in for drinking or being in contact with contaminated water, such las diarrihea, kholera, typhoid, nin of or alskin minfections with it for a milesting plent has busine, man stay rant and the

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source of water pollution:
unsurprisingly human activity rist primarily responsible
for water pollution even, if natural phenomenon-such
as Landslides and froods - can also contribute to degrade
the water quality willie in right have
they in the state of the safe asult.
1(1) Sewager and wasterwatered his magnitude
In adequate scroage collection and treatment are
sources of water pollution. According to the united
Nations, more than 80% of the world wide wastewater
goes back in the environment without being treated
b mor reused is in a line with the whole
(2) Agriculture: 11 1/2 1/2 200 12 proces 16 10 mg.
Agriculture has an impact on water pollution
due to theirese of chemical usuch as intertilizers puticides,
Fungicides, herbicides or insecticides running off in the
water , as well as livestock i excrement; manure, and
methane legreen house iffectile in a see
(3) Industries 200 million million in the same
Industries produce a lot of waste containing
toxic, chemicals and pollutants. A huge amount of the
industrial waste is drained in the fresh water
which then flows in to canals, rivers and eventually in the sea.
23

S D -	
ara - i H	alichnoull ite com via alluria mul ai sili
*12 21)	what is water pollution! explain it's source reflects
gitlihiti	and controls? sell sen while it is sich wie
100 113	De withing of the received in the property of
	water pollution I can be defined as the contamination
	of a stream, river, take ocean or any other stretch
	of water depleting water quality and making
14 15 12 1	it toxic for the environment and humans
	there are two types of water pollution:-
7 -	1) organic pollution due to micro-organisms bacteria,
	and viruses present in the water generated by excrement animal and vegetable waste
	vegecquie touste
	2) chemical pollution generated by the nitrates
	and phosphates of pesticides human and animal
1277	drugs how chold products, heavy metals acids and
	hydrocarbons used in industries.
P 11/11	
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GOVT, DEGREE COLLEGE: RAYACHOTY DEPARTMENT OF _ Cherocolly

ASSIGNMENT REGISTER CLASS TOPIC

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5	B. Raghavulu.	B. Paghuller
6	B. Sai kumay	R. Sat Jeman
7	M. Reddyppa reddy.	m. neddyppa raddy
8	N. Solesh kumaly	N. Salecah Kumara
9	P. Ramamohan	P. Dam mohar
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Signature of the Lecturer

Signature of the Department I/C



GOVT.DEGREE COLLEGE RAYACHOTY

Department of chemistry



Name of the student	N. Satish Jenner
Group	
Course	
Roll No	1903 [06330]
Title of the Assignment	water pollution

This is turn results in a great threat to the very cuistence of life on earth. All the developed countries which widely use the cfc's for air conditioning by now are aware of the situation and are trying to find out safer substitutes for cfc's.



iii) ozone deplection 1-

hight of trite meters and beyond in the strate sphere signent of the atmosphere the temperature of the stratosphere is around -stic which reduces upto -2°c with the increasing attitude. Even though orone (03) is very unstable in the ordinary temperature it is quite stable at very low temperature of the stratesphere.

Scientists have discovered that in the recent years the increased human activity is ever cowding the stratesphere with the oxides of nitrogen from nuclear outplasions tonducted by screntists almovarious places.

which deplotes the ozone layer was also found to be rapidly polluting the stratosphere namely the chlorofiono carbons.

In A Green house is a glass house ereated in the open to grow plants in it without expasing them to the external temperature in

In recent years with the global increase in the corbon dioxide production with the great industrial development and the increase in the population of the present day world. manifis subjecting the earth to unlimited deforestation and is increasingly produce a large excess of carbondioxide by buining the carbonaceous fuels: the carbon dioxide produced informs a protective umbrella like the gloss house walls. It lets in the solar madiations on to the earth which warm it up but dan notingermit the infrared and other longer waver length radiations to les cape consequently the earth gets heated up and remains warm and the temperature of earth rises. This is called the green house effect. In effect the green house effect is the progressive global

SO2 +H20 -> H2503 NO + NOIT HID - 2HNOS These realtions l'are better calalysed by the particulate matter in the atmosphere such as soot and metal oxides thus the chief acids responsible for the acid rain rih Un are issulphunic and whiteres acids. 111 11 111 Basides whe supplier and pitric acids wacid rains suralso wontains while gas forth natural and anthro pogenic Sourcest the madnerse meffect's of macidirain are many pure water infromin rainfull has the . PH around 0-0-to 7.0 dues to the dissolved otmosphere con nand notorat i goses However racidi raininiexhibits la pt 5.00; or much! below depending upon the strength of acid involved in 118 formation In agriculture acid rains retords the growth of all iplants especially whe leguminous ones as it effect the pitrogen in fixing bacteria.

	and the state of t
4	Explain the following
	1) Acid rains
	will break house effects
	(111) Nozonie depletation laterality
	W. C.
1)	iv Acrd rains 1- while it is the
5	Acid rain is a result of acidic
	oxide 8 dissolving I'm water this is due to
	several industrice releasing acid exhaust
	gases into the almosphere the oxides
	responsible for acid rain are the oxides
	of corbon, Nitrogen and Sulphur
	1) Source 8 of the audic oxides -
	Industries using coal and sulphux releases
	the oxide 8 of carbon and sulphur in large
	quantities ill out Days
	(1 (1 (02) -) (02); S+02 -> Soz
	Soz gets oxidised to soz in the presence
7	of ozone and other gases
	Souto Souto
	These exides interact with roin water to
	form acids.
	// V



ASSIGNMENT REGISTER

S.NO	DATE	CLASS	TOPIC
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GOVT.DEGREE COLLEGE RAYACHOTY

Department of chemistry



Name of the student : CH. HATERA

Group : 3r9 B.7.C

Roll No : 1903/0633019
Title of the Assignment : ACID RAINS & GREEN HOUSE

Title of the Assignment: ACID RAINS - GREEN HOUSE

Are.	* No to plastic bags
1 1 11 7	* Reduction LOF FOTESTS FITES and So
- 1	* use filters for chimneys
	* Avoid using of products with
1-2	Chemicais VIII
or is	* Implement Afforgs tation
A R	The state of the s
wing	
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* MOST OF air Pollution coince From energy
use and Production says John wake Director
of lac clean air project part of lee
air follution

* Respiratory and heart problem

* The errock of air pollution are ovarraing

* child heath problems

* (0 on Inhaltion it passes are ofarming large into blood storan)

A It reacts with heamographin (116) of REC forming a stable coordination Complex caued carboxy hoemographin

It react to causes difficulty in

and Initation of may membrane

* co causes dizziness headache (ardioc and pulmonarry changes

controle =

* using public transports

* Turn off the lights when rot in use





like the sahara the Gobi and tatlamata are responsible for pmg.s parlution due be He size of the Grains Spread * wild fines generate high levers of Pm Pollution along with co and NOX * volcanoes release NH3 and coa during equiptions which can from secondary pm when combined other pollutionts in the amosphere * volcanoes release NHz and Son during exuption along wife to and next in the armo sphere * Sout From Sea spray ouso constitutes 08 Pm pollution contributing up to 80% of particle levels in coaston areains # Gattonary sources kuch as power Plants oil refineries industrial fadires and radonies * ATEa. GOUTCES, Such as agriculture area aries and wood by thing sizephos * Marura Goyoces guch las wind blown dust wild tives and valconnes Effects = Because 1 of air pollution 80 mony effects in nature

what is air Poblution? Explain its source effects and controls Air pollution: Air Pollunon is the contamination of any due to les présence of cultimords in His armsophere teat one bornsul to the house of humans and older living beings or cauge domage to the climate of to marchiais Sources : The morrow source on air pollution inclus * The combistion of come oil gos and other fuels too be generation of electricity * Burning gaspline diesel and other fuers for transcrovation / * Emission from borious industrial processes + Burning wood and other fuces for heating and cooking * Agriculusas burning land cleaning and man made fires * Namual Edurces including volcanocs Forest Fixes and dust storms * sand and dusa strong from descrits



ASSIGNMENT REGISTER

S.NO	11-3-22 DATE	CLASS	TOPIC
- 1	2 0 900	TT-B24	Air pollution
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3	S. Akboo	hoho	S. Aubiny basha.
4.	2. ADDES		S. Yacar
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Signature of the Lecturer



of the Department I/C

GOVT.DEGREE COLLEGE RAYACHOTY

Department of chemistry



Name of the student: Shaile Yasax

Group: Find B2C

Course: B.Se

Roll No: 1903/0633065

Title of the Assignment: Air poll whow

streams & rivers (0-0001) Lake (0.009) under grown oneas (5 625 %) & ice caps 11 I Forest Yesowices 1+ Forests We The reserves for Fine wood grass frais nuts vegebtes 2 medicinal herbs besides giving Shelter to wild animals having culture fir fossil fuels/like coal:-* Petriol hydrocarbons & natural gas Produce non-renewable types of energy fire wood & wood provide non- renewable Types of energy * coal is The buried from of frees enlaged in soil layers dwing earth quakes own country. xoil Enatural gas comission has been involved in extendeting These underground

woves solides of occurs our continous this can be convented in to electrical energy toy me chanical commonly atomic or nuclear energy obtained in the nuclear greations Crissions (usion) is known as Along Cenerally

once They wie used the land wica

minerals oceanic underground resolutions fossil oils acoal edie.

energy utilization will be develop dobak once in Viyears, at The courtent Yate of Population I Youth.

i water to sources!

Through wonter appears to be plenty in our sustrounding as we see it seas only 2.7% is available to

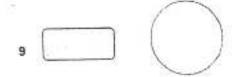
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forests, grasslands wild life a quatic organisms & water constitute both renewable & non renewable yesowices. Judicious use of These resources help in Their conservation & continious availability. in discriminate use of These resources to fall fill The femperory selfish needs may resulting total disappearence with in no time. Through They are renewable.

i solan energy:-

This is The major energy source for The production of regetation which serves as food & fuel for mankind it can be used for cooking using solar cookers efforts are being made to convert solar energy into electrical energy in wind energy:

wind currents can also be harvested into mechanical energy for up lifting water form The well of Yivers. This devices used for this purpose callednils.



Food shelther & yeproduction & The primary Yequinements for any organism to live a long with Them water ain light temp & nutrients are also necessary most of These abiotic factoris constitute. The energy resources & are available in nature.

There Utility increases with The increases in population Total deplection of These resources may lead to The death of The over anisms.

Energy resources of lown country? -

broadly divided into two types.

1. Renewable Resources

2. Non-Yenewable Yesowices

What the Anthon



GOVT. DEGREE COLLEGE: RAYACHOTY DEPARTMENT OF Cherolis

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Aghan Rada - Baskad. - Rospullu - Cod Kuman - Randerbarry - Comamoner
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1. Hogerra

GOVT.DEGREE COLLEGE RAYACHOTY

Department of chemistry



Name of the student:

S. Trfan basha

Group:

B2C W 7d Year

Course:

Roll No:

1903 (0633 003

Title of the Assignment:

Renewable - non - renewable source 8

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GOVERNMENT DEGREE COLLEGE

RAYACHOTY - 516269, ANNAMAYYA DISTRICT. (A.P.)



DEPARTMENT OF <u>HISTORY</u>. (UG courses)

Assignment Topic

Freedom Movement in India.

Topic Submitted BY

Name of the Student: A.S. Hussam.

Class: Ind B.A.

Date : _____

Academic Year: 2021- 2022.



GOVT. DEGREE COLLEGE: RAYACHOTY DEPARTMENT OF 4/3 S-40-4 ASSIGNMENT REGISTER

S.NO	DATE	CLASS	TOPIC	14	
		TIND and TILY	Freedom Movement	in ind	ia.

Si. NO	Name of the Student	Signature of the Student
1	M. Vi Jay Kumas	M-Vizuy Kumarx
2	A. Pgabha Koga	A Papha Laga
3	M Shaik, Abdula	S.Abdulla
4	P. Aftidi than	P-Afridi Khan
5	P. Fandeen Khan	P. Fordeen Stan.
6	S. Akram	S. AKKYAM
7	P. Irfan	P. Irfan
8	S. Mantinadha	S. ropsumblia
9	A. Mahesh vaidu	A makes poide
10	v. Abusha	N. BUOZÍO
11	N. Sivajah	N. Si Valah
12	D. Eswana	D. Eswalla
13	G. Asim tumas	Cy Allen Kwar
-700	S. Molik basha	5. malik bosha
15	N. SIVA PVasad	N. Seva Prasid
16	A. Mohammed thanveer	-A motormed - transcer.
17	J. Sudharshan	J. sudHarshall
18	A. Reddy krishna	A. Reddy Krishna.
19	iredtoxas .x	L. Gayather;
20	Y. Kissan Kumas	y Kiran Kuman
21	C. Koman Swami	C. tomas sunm?
22	M. Shravani	M. Shvavani
23	S. Imran	2. Surren
24	V. Jaya Simha	v. Jalashus
25	N. Anj; kuman yada	N. Andi Kumay & Yandan
26	M. DOVAJ Naik	My Devois Halls
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Signature of the Lecturer

Signature of the Department I/C



DEPARTMENT OF Mathematics

ASSIGNMENT REGISTER

S.NO	DATE	CLASS			TOPI	C
	16/7/2006	THATE	D	-th-	0	Matria

SI. NO	Name of the Student	Signature of the Student
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2	D PRASANNA SYOTHI	Masanya Zuch
3	D-PAVAN ICUMAR	Parlantingar
4	B. VENKATA TARUN	Vimale tagen
5	K. BHAGYADEKHA	EN astrolly
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13	S. SREEDHAR REDBY	S. Khada Degle
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Signature of the Lecturer

Signature of the Department I/C

GOVERNMENT DEGREE COLLEGE

RAYACHOTY - 516269, ANNAMAYYA DISTRICT. (A.P.)



DEPARTMENT OF Mathematics
(UG courses)

Assignment Topic

RANK OF A MATRIX

Topic Submitted BY

Name of the Student: M. SAI

Class: II M.P. C8

Date: 16 07 2022

Academic Year: 2021 - 2022

"Characteristic Vectors Corresponding to the characteristic root 3' are given by x=[3]=k[15] where t is non-zero parameters.

Case-(110)- Let 2=15

Characteristic vectors corresponding to the characteristic voot 15 are given by (A-15I)X=0

: Characteristic vectors corresponding to the Characteristic vectors $x = k \begin{bmatrix} \frac{1}{2} \\ \frac{1}{2} \end{bmatrix}$ where k is non-zero parameters.

Cose(11) + Let 1=3 characteristic vectors corresponding the Characteristic root 3 aire given by (A-3I) X=0

$$2R_3 - R_2 \sim \begin{bmatrix} 5 & -6 & 2 \\ 0 & -16 & -8 \\ 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} 2 \\ 3 \\ 3 \\ 3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

=7
$$-5x-6y+23=0$$
 _(i)
 $-6y-8z=0$ _(ii)
Let $z=k(\neq 0)$

=7
$$\lambda$$
 (β +15) (β -3)=0
=7 λ =0,3,15
The characteristic roots of A are 0,3315.

Case (1):

Let $\lambda=0$ characteristic vectors corresponding to the characteristic root 'o' are given by (A-o.I) X=0.

$$R_{2}+3R_{1} \sim \begin{bmatrix} 2 & -4 & 3 \\ 0 & -5 & 5 \\ 0 & 10 & -10 \end{bmatrix} \begin{bmatrix} 27 \\ 27 \\ 37 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$=7$$
 $2x-4y+3z=0$ (i)
 $-5y+5z=0$ $-7(ii)$
Let $z=k$ ($\neq 0$)

$$= 7 \times = 8 + \left[\frac{5 + 6k_1 + 8k_2}{5} - \frac{2k_1 - k_2}{5} \right]$$

$$= 7 \times = 10 - 5 + 6k_1 + 8k_2 - 10k_1 - 5k_2$$

$$= 7 \times = \frac{5 - 4k_1 - 3k_2}{5}$$

$$= 7 \times = \left[\frac{2}{3} \right] = \left[\frac{-4/5}{6/5} \right] + k_2 \left[\frac{-3/5}{2/5} \right]$$

$$= \frac{2}{3} \times \left[\frac{2}{3} \right] = \left[\frac{-4/5}{6/5} \right] + k_2 \left[\frac{-3/5}{2/5} \right]$$

$$= \frac{2}{3} \times \left[\frac{-4/5}{6/5} \right] + k_2 \left[\frac{-3/5}{2/5} \right]$$

$$= \frac{2}{3} \times \left[\frac{-4/5}{6/5} \right] + k_2 \left[\frac{-3/5}{6/5} \right]$$

$$= \frac{3}{6} \times \left[\frac{-6}{7} \right] + \frac{3}{6} \times \left[\frac{-6}{7} \right$$

characteristic vectors of the matrix $A = \begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 - 4 \end{bmatrix}$

Griven matrix: is $A = \begin{vmatrix} 8-6 & 2 \\ -6 & 7-4 \\ 2-4 & 3 \end{vmatrix}$

The characteristic equation of A is IA-AII=0 = | 8-\lambda -6 \Q\ -6 \ 7-\lambda -4 \ 2 \ \Q\ -4 \ 3-\lambda = 0

=7 (8-1) (21-101+2-16)+6 (-18+67+8)+2(24-14+27)=0

=7 (8-2) (2-10) +5)+6 (6)-10)+0(2)+10)=0

= 82-80+40-23+102-52+362-60+42+20=0

=7 - N3+18x2-45x=0

=7 7 (-22+181-45)=0

=7 8 (-2+151+37-46)=0

=7 A [AGA+15)-3GA+15)]=0

4) Solve 2-9+23+t=2, 32+24+t=1, 42+3+23+21.=3.

Sols Griven equations α -g+23+t=2, 3x+5y+t=1, 4x+y+3s -151 3

The system can be expressed as

Reduing to echelon form

$$\begin{array}{c} R_2 - 3R_1 \\ R_3 - 4R_1 \end{array} \sim \begin{bmatrix} 1 & -1 & 2 & 1 \\ 0 & 5 & -6 & -2 \\ 0 & 5 & -6 & -2 \end{bmatrix} \begin{bmatrix} 2 \\ 3 \\ 1 \\ 2 \end{bmatrix} = \begin{bmatrix} 2 \\ -5 \\ -5 \end{bmatrix}$$

$$R_3 - R_2 \sim \begin{bmatrix} 1 & -1 & 2 & 1 \\ 0 & 5 & -6 & -2 \\ 0 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \\ 5 \end{bmatrix} = \begin{bmatrix} 2 \\ -5 \\ 0 \end{bmatrix}$$

This is in ectelon form.

S(A)=== S(AB) < no of variables in X(4)

: AX = B has infinity many solutions.

$$= 2 \times -3 + 23 + 1 = 2 - (1)$$

Let 3=K1, t=K2 where K1, K2 are two parameters

$$= \frac{1}{5}y = -\frac{5+6k_1+2k_2}{5}$$

Where
$$A = \begin{bmatrix} 1 & 1 & -1 & -1 \\ 1 & +1 & 2 & -1 \\ 3 & 1 & 0 & 1 \end{bmatrix}$$
, $\chi \begin{bmatrix} \alpha \\ \beta \\ \beta \end{bmatrix}$, $Q = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$

Reducing to echelan form.

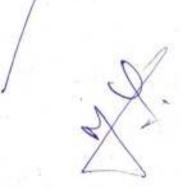
This is in echelon form.

: Ax=0 has no zero solutions only.

Let 3=K,, t=K2 Where K, K2 are two Parameters.

$$=7$$
 $y = 3k_1 + 2k_2$

$$2 = -\frac{3k_1 - 9k_2}{2} + k_1 - k_2$$



$$\begin{array}{c} R_{2} - 7R_{2} - 9R_{3} \\ R_{4} - 7R_{4} + 3R_{3} \end{array} \sim \begin{bmatrix} 1 & 0 & 0 & .1 \\ 0 & 1 & 0 & -4 \\ 0 & 0 & .1 & 3 \\ 0 & 0 & 0 & 3 \end{bmatrix} = \begin{bmatrix} -1 & 1 & 0 & 0 \\ 1 & -2 & -2 & -9 \\ 0 & 1 & 1 & -1 \\ 0 & 0 & 3 & -9 \end{bmatrix} A$$

$$R_{4} \rightarrow \frac{R_{4}}{R_{3}} \sim \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & -4 \\ 0 & 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} -1 & 1 & 0 & 0 \\ 1 & 2 & -2 & -2 \\ 0 & 1 & 1 & -1 \\ 0 & 0 & 1 & -3/3 \end{bmatrix} A$$

=7
$$Iq = B.A$$
 where $B = \begin{bmatrix} -1 & 1 & -1 & 2/3 \\ 1 & -2 & 2 & -2/3 \\ 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -2/3 \end{bmatrix}$

$$\Rightarrow A^{-1} = B = \begin{bmatrix} 1 - 2 & 2 - 9/3 \\ 0 & 1 - 2 & 1 \\ 0 & 0 & 1 - 9/3 \end{bmatrix}_{1/2}$$

Solir Guven system is
$$x+y-3+t=0$$
, $x-y+3+3=3-t=0$, $3x+y+t=0$

This can be expressed as
$$\begin{bmatrix} 1 & -1 & 1 \\ 1 & -1 & 2 & -1 \\ 3 & 1 & 0 \end{bmatrix} \begin{bmatrix} 3 \\ y \\ z \\ 1 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$
 i.e. $AX=0$

$$R_{4} \rightarrow P_{4} \rightarrow R_{3} \rightarrow \begin{cases} 1000 & 0 \\ 0100 & 0 \\ 0000 & 0 \end{cases} = \begin{bmatrix} 1300 \\ 000 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 1300 \\ 0000 & 0 \end{bmatrix} = \begin{bmatrix} 1300 \\ 0000 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 11000 \\ 11100 & 0 \\ 11100 & 0 \end{bmatrix} = \begin{bmatrix} 11000 \\ 11100 & 0 \\ 11100 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 11000 \\ 11100 & 0 \\ 11100 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 11000 \\ 11100 & 0 \\ 11100 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 11000 \\ 11$$

Assignment - I.

I) Reduce the matrix $A = \begin{bmatrix} 2 & 3 & -1 & -1 \\ 1 & -1 & -2 & -4 \\ 3 & 1 & 3 & -2 \\ 6 & 3 & 0 & -7 \end{bmatrix}$ to normal form and hence find its rank.

Given matrix $A = \begin{bmatrix} 3 & 3 & -1 & -1 \\ 1 & -1 & -3 & -4 \\ 3 & 1 & 3 & -3 \\ 6 & 3 & 0 & -7 \end{bmatrix}$

 $R_1 \leftarrow 7R_2 \sim \begin{bmatrix} 1 & -1 & -2 & -4 \\ 2 & 3 & -1 & -1 \\ 3 & 1 & 3 & -2 \\ 6 & 3 & 0 & -7 \end{bmatrix}$

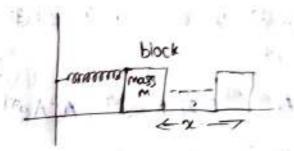
 $C_2 - 7C_2 + C_1$. $\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 5 & 3 & 7 \end{bmatrix}$ $C_3 - 7C_3 + 2C_1 \sim \begin{bmatrix} 0 & 5 & 3 & 7 \\ 0 & 4 & 9 & 10 \\ 0 & 9 & 12 & 17 \end{bmatrix}$

 $\begin{array}{c} R_{2} - 7R_{2} - R_{3} \\ R_{2} - R_{3} \end{array} \sim \begin{array}{c} \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & -6 & -3 \\ 0 & 4 & 9 & 10 \\ 0 & 9 & 12 & 17 \end{bmatrix} \\ R_{9} - 7R_{3} - 4R_{2} \\ R_{4} - 7R_{4} - 9R_{2} \\ C_{3} - 7C_{3} \\ C_{4} - 7C_{9} \\ C_{9} \end{array} \sim \begin{array}{c} \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & -6 & -3 \\ 0 & 0 & 33 & 22 \\ 0 & 0 & 66 & 44 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 9 & 2 \\ 0 & 0 & 9 & 2 \\ 0 & 0 & 9 & 2 \\ \end{array}$

a What is Domped hormonic motion derivative differential equation for it and find its solution.

1

Damped harmonic motion: when a body oscillates in air (or) any other medium the amplitude of Oscillations decreases gradually and finally the body comes to rest. This is due to the medium offers frictional force to the body. These oscillations are called Damped harmonic motion. And the body which executs Damped harmonic oscillator.



1. Consider a block of mass m attach to a spring and placed on a horizontal surface.

8. If we, displace the block by a to the disp right gide and two forces acting on it.

Net-force
$$F_{Net} = -kx-rv$$

GOVERNMENT DEGREE COLLEGE

RAYACHOTY -516269, ANNAMAYYA DISTRICT. (A.P.)



DEPARTMENT OF PHYSICS (UG courses)

Assignment Topic

What is damped harmonic oscillator? Derive differential equation for it and find solution?

Topic Submitted BY

Name of the Student : T SREEVIDYA

Class: I M.P.Cs

Date: 05-01-2022

Academic Year: 2021-22



GOVT. DEGREE COLLEGE: RAYACHOTY DEPARTMENT OF PHYSICS

ASSIGNMENT REGISTER

S.NO	DATE	CLASS	TOPIC
L	89	1 MPCs	What is damped harmonic oscillator? Derive
	05/01/2022		differential equation for it and find solution?

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2	B REDDI PRASANTHI	
3	G REDDI LOKESH	
4	M FATHIMA MISBHA	
5	M SWATHI	
6	S.SYEDVALLI	
7	T SREEVIDYA	
8	V SIVASANKAR	
9	1.8 SANGEETHA	
10	2. K LIKHITHA	e e
11	3.K ANJENEYULU	
12	4.S.M YOUSUF	

Signature of the Lecturer 05 01 7012

Signature of the Department (1/C)

$$x = e^{-bt} \begin{bmatrix} A_1 + A_1ht + A_2 - A_2ht \end{bmatrix}$$

$$x = e^{-bt} \begin{bmatrix} A_1 + A_2 + h(A_1 - A_2)t \end{bmatrix}$$

$$tef \quad A_1 + A_2 = P \quad h(A_1 - A_2) = Q$$

$$x = e^{-bt} \begin{bmatrix} p+qt \end{bmatrix}$$

In this case time increase displacement decreases rapidly and becomes o.

Displacement visitime

Ex: Motion of a pointer exhibit in galvanometer, Ammeter.

Under D.M.: $2 = Ae^{(b+1\beta-\omega)}t + A_2e^{(-b+1\beta)}t$ $= A_1e^{(-b+1\beta)}t + A_2e^{(-b+1\beta)}t$ $= e^{-bt}(A_1e^{i\beta}t + A_2e^{-i\beta}t)$ $= e^{-bt}(A_1e^{i\beta}t + A_2e^{-i\beta}t)$

This is the solution for Damped Formonic auxilialor-Case -15 (8762) over damped motion; then b' >16-62. * The terms -b+162-62, -b-162-62 are negative. * As the time increases i displacement decreases and becomes o without any oscillation. * In this case only the body once displace equilibrium position without, performing any oscillations and becomes a Distance Displacement V/s time time t Ex: motion of pendulum moving in thick oit. Case-21- (b=62) critical damped motion: * b2=w2, wb2-w2 = h+ (very small number) x = A, etb+h)t+ A2e Cb+h)t

= ett [A. e(1+hi) +Az (1-ht)

$$\frac{d^{3}x}{dt^{2}} = t\omega^{2}x - 2b\frac{dx}{dt}$$

$$\frac{d^{3}x}{dt^{2}} + 2b\frac{dx}{dt} + \omega^{2}x = 0 \quad | -7 \text{ 3}$$
This is the differential equation for D.H.

Let $x = heat - 7\theta$.

Let

GOVERNMENT DEGREE COLLEGE

RAYACHOTY -516269, ANNAMAYYA DISTRICT. (A.P.)



DEPARTMENT OF COMMERCE (B.COM,GEN)

Assignment Topic

TYPES OF BUSINESS ENVIRONMENT

Submitted BY

Name of the Student: P. RAMANAIAH

Class : B.COM, I SEMESTER

Date:17-03-2022

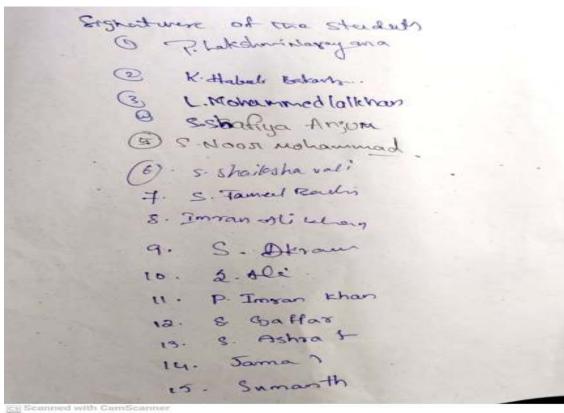
Academic Year: 2021-2022

Types + Micro Macro Environment Defination: The business environment is total of all external things to business of Industrial afects in organization and oxciation. -types of business Phrironment meternal environment 2) External environment External envisonment on homeograph and published that Marco e de bida (2013 Mirco. la Economic Environment 1. suppliers radiation 2. Interredicties 1 to 2 political phrivonment 3. customers 3. social culture environment with techological envisonmen u. Financers 5. Global environment s. publics 6. Nature environment 6. competitors

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structure of economy is three tres there primary sector 3. Testiary octov. 3. Textiory Terriory sector Primary sector secondary sector 1. small soull 1. Agriculture 1. Power 2. Transport and 2 mining on large scale . Forest Industries. ul. Fisheries 3. Internal and 5. Animal International 4 Banking and finace husbaday Economic Reforms refer to the fundament! changes that were lunched with the plan of liberalising the economy and to quicken its rate of economic Navasimha Rac government, in 1991 started the economic referms in order intend and external faith in the Indian economy





Signature of the Lecturer