2.3.1: Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences using ICT tools

Participative learning

(Sample copies of each activity attached)

Sr. No.	Activity	Department	Type of document	ICT tool used
1.	Practical	Physics	Time table, journal	PPT for graph
			certificate, index	
2.	Group discussion	Physics / English	Report of activity	Mobile,
			and list of	computer, apps,
			students	online platforms
3.	Seminars / Viva	English / Physics	Report of activity	PPT, smart
	Voce		and list of	board etc.
			students	
4.	Group project	Geography	EVS projects	GPS, Mobile
				applications

Roll No .:

72

Exam. Seat No.

"Education through self - help is our motto" - KARMAVEER

RAYAT SHIKSHAN SANSTHA'S

Dada Patil Mahavidyalaya, Karjat

Dist. Ahmednagar



CERTIFICATE

Department of PHYSICS

This is to certify that Mr. / Mrs. Sarade Abhijeet Ramk & ushna

has satisfactorily carried out required practical work, prescribed by the

Savitribai Phule University, Pune for the B. Sc.- I, B. Sc.- II, B. Sc/- III

Physics course in

and this journal represents his / ber bonafide work in the year 20 02 - 20 13

xaminers

Head Department of **Physics**

SERVICE	Name of	STATE OF THE PERSON NAMED IN	Maria District		Miles II	NOSTITI
				ESIA SE		1
at the				Total Control		

Name of Street, or other Persons					
Sr. No.	Name of Experiment	Page No.	Date	Remark	Signature of Incharge
01	LOGIC gates	01	15-11-55	4	Runta
02	USE OF CRO	03	15-11-22	C	- American
03	characterstics of	04	16-11-22	L	Roul
7	UJT				
04	Transistor characte-	06	22-11-22	C.	Jumany
05	zener as a regulato	L O v	22-11-22	C	Ammun p
0.6	plotting tolgnometals	11	26-11-22	C)
			26-11-20		
10	and hyperbold				Ammung 27/142
8	mini-project ->	16	274-15- 276-11-5U	C	
	uni-junction transistor		2622		



Page No.: 11

Name of the college: Dada Pati college

Subject: Physica

Expt. No.

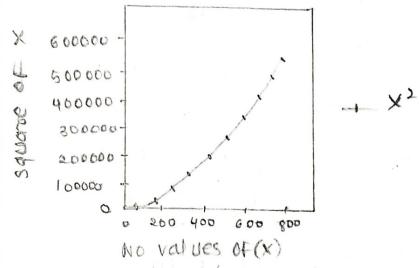
Date

Name: Garage A.R. Class: SY Batch: Roll No.: 72

Title of Expt.: Plotting to ignometric runctions

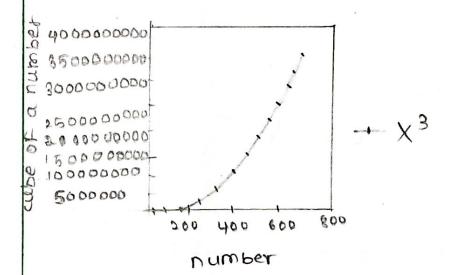
Alm- platting of Trignometric Functions using graphics gottware.

1) Greath of X M sgr of X



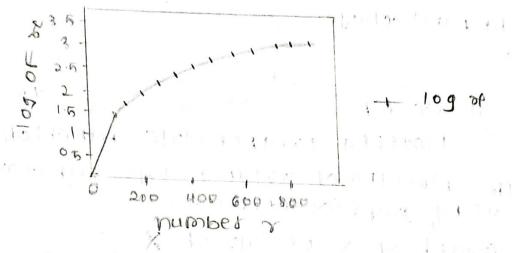
a) craph of x is cube of x'

Remarks

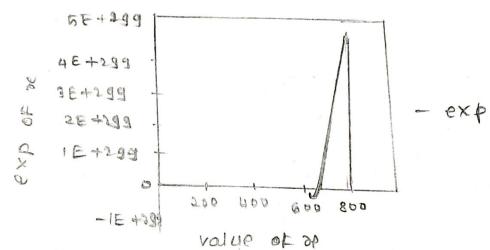


Signature

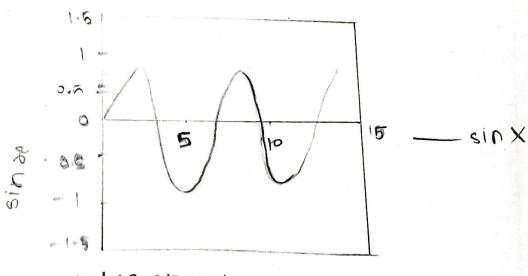
37 Graph of X rs log X



4> Graph of X 13 EXP X



By wraph of x in rad rs sinx



value of x in radians

Dada Patil Mahavidyalaya, Karjat, Dist: Ahmednagar Department of Physics

U.G. Section: S. Y. B. Sc. <u>#Experiment: Plotting of Trigonometric Function using MS-Excel.</u>
Academic Year: 2022-23

Name of the Student: Sarade A-R. Roll No.: 7 Date: / /2022.

Sr. No.	X in degree	X in Radian	X ²	X ³	Log X	Ехр Х	Sin X	Cos X
01	0	0	0	0	#NUM!	1	0	1
02	30	0.523599	900	27000	1.477121	1.07E+13	0.5	0.866025
03	60	1.047198	3600	216000	1.778151	1.14E+26	0.866025	0.5
04	90	1.570796	8100	729000	1.954243	1.22E+39	1	6.13E-17
05	120	2.094395	14400	1728000	2.079181	1.3E+52	0.866025	-0.5
06	150	2.617994	22500	3375000	2.176091	1.39E+65	0.5	-0.86603
07	180	3.141593	32400	5832000	2.255273	1.49E+78	1.23E-16	-1
08	210	3.665191	44100	9261000	2.322219	1.59E+91	-0.5	-0.86603
09	240	4.18879	57600	13824000	2.380211	1.7E+104	-0.86603	-0.5
10	270	4.712389	72900	19683000	2.431364	1.8E+117	-1	-1.8E-16
11	300	5.235988	90000	27000000	2.477121	1.9E+130	-0.86603	0.5
12	330	5.759587	108900	35937000	2.518514	2.1E+143	-0.5	0.866025
13	360	6.283185	129600	46656000	2.556303	2.2E+156	-2.5E-16	1
14	390	6.806784	152100	59319000	2.591065	2.4E+169	0.5	0.866025
15	420	7.330383	176400	74088000	2.623249	2.5E+182	0.866025	0.5
16	450	7.853982	202500	91125000	2.653213	2.7E+195	1	3.06E-16
17	480	8.37758	230400	1.11E+08	2.681241	2.9E+208	0.866025	-0.5
18	510	8.901179	260100	1.33E+08	2.70757	3.1E+221	0.5	-0.86603
19	540	9.424778	291600	1.57E+08	2.732394	3.3E+234	3.68E-16	-1
20	570	9.948377	324900	1.85E+08	2.755875	3.5E+247	-0.5	-0.86603
21	600	10.47198	360000	2.16E+08	2.778151	3.8E+260	-0.86603	-0.5
22	630	10.99557	396900	2.5E+08	2.799341	4E+273	-1	-4.3E-16
23	660	11.51917	435600	2.87E+08	2.819544	4.3E+286	-0.86603	0.5
24	690	12.04277	476100	3.29E+08	2.838849	4.6E+299	-0.5	0.866025

2.857332

#NUM!

C

12.56637

720

25

518400

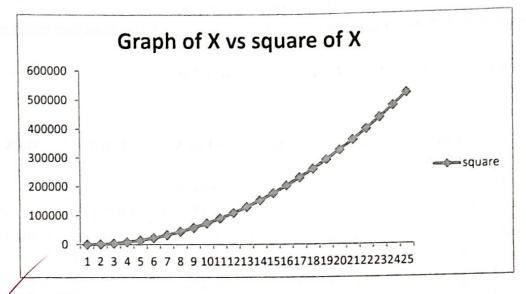
3.73E+08

Remark

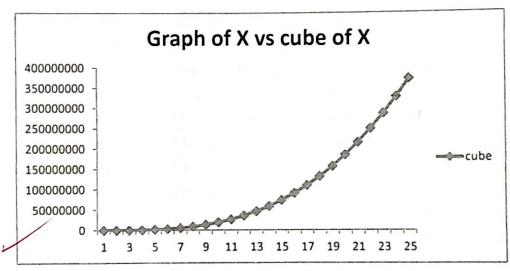
Teacher Signature

-4.9E-16

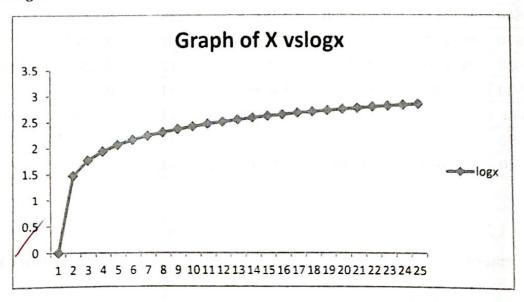
Graph I: X Vs. Square of X



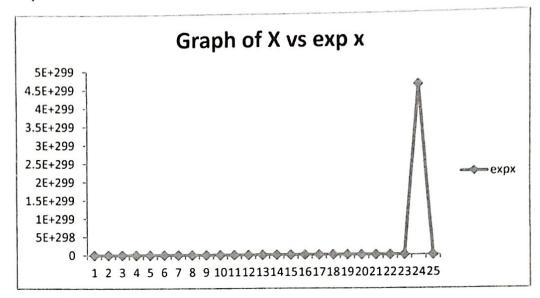
Graph II: X vs. Cube of X



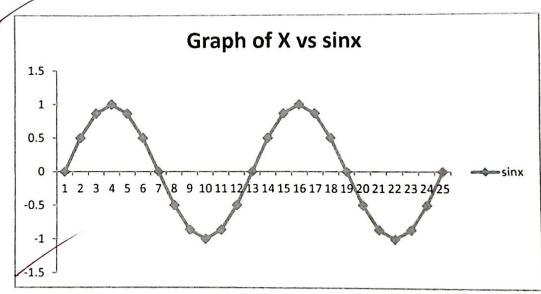
Graph III: X vs. Log X



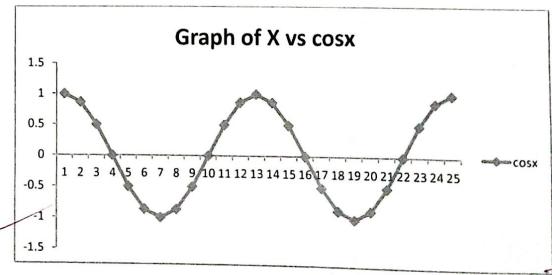
Graph IV: X vs. exp. Of X



Graph V: X vs. SinX.



Graph VI: X vs. CosX



Stry 2



Rayat Shikshan Sanstha's where solvers so on

Page No.: 13

Name of the college: bada Pati college

Subject: Physics

Expt. No.

Name: Sarade A.R

Class: SY

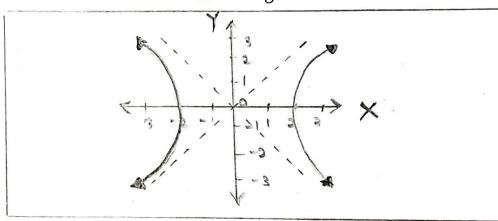
Batch: _____ Roll No.: 72

Date

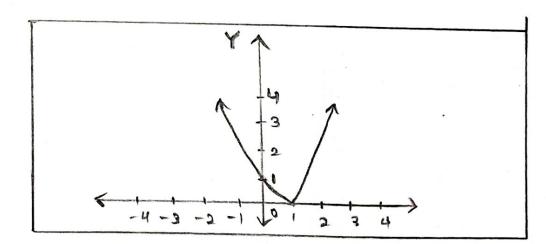
Title of Expt.: Eq ofor circle parabola and hyperbola

AIM-Plotting of torgnometric runetions using graphics software.

19 Hyperbold eq or hyperbola $\frac{y^2}{a^2} = \frac{at^2}{b^2} = 1$



Parabola



Remarks

1

Signature

Dada Patil Mahavidyalaya, Karjat, Dist: Ahmednagar

Department of Physics

U.G. Section: S. Y. B. Sc. <u>#Experiment: Plotting of Mathematical Fucntions using MS-Excel.</u>
Academic Year: 2022-23

Name of the Student: Sorade

M-P.

Roll No.:

72

Date:

/2022.

Chart 1: For Circle.

Sr. No.	Radius 'r'	Angle	Angle 'a' in Radian	Cosa	Sina	X=r*cosa	Y=r*sina
1	5	0	0	0	0	5	0
2	5	30	0.523599	0.523599	0.5	4.330127	2.5
3	5	60	1.047198	1.047198	0.866025	2.5	4.330127
4	5	90	1.570796	1.570796	1	3.06E-16	5
5	5	120	2.094395	2.094395	0.866025	-2.5	4.330127
6	5	150	2.617994	2.617994	0.5	-4.33013	2.5
7/	5	180	3.141593	3.141593	1.23E-16	-5	6.13E-16
8	5	210	3.665191	3.665191	-0.5	-4.33013	-2.5
9	. 5	240	4.18879	4.18879	-0.86603	-2.5	-4.33013
10	5	270	4.712389	4.712389	-1	-9.2E-16	-5
11	5	300	5.235988	5.235988	-0.86603	2.5	-4.33013
12	5	330	5.759587	5.759587	-0.5	4.330127	-2.5
13	5	360	6.283185	6.283185	-2.5E-16	5	-1.2E-15

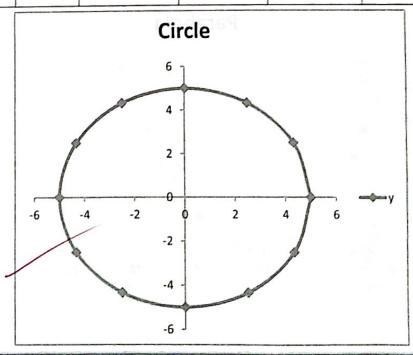


Chart 2: For Parabola

Sr. No	Value of a	Value of b	Value of c	Value of X	$Y = ax^2 + bx + c$
1	5	5	5	-10	455
2	5	5	5	-9	365
3	5	5	5	-8	285
4	5	5	5	-7	215
5	5	5	5	-6	155
6	5	5	5	-5	105
7	5	5	5	-4	65
8	5	5	5	-3	35
/9	5	5	5	-2	15
10	5	5	5	-1	5
11	5	5	5	0	5
12	5	5	5	1	15
13	5	5	5	2	35
14	5	5	5	3	65
15	5	5	5	4	105
16	5	5	5	5	155
17	5	5	5	6	215
18	5	5	5	7	285
19	5	5	5	8	365
20	5	5	5	9	455
21	5	5	5	10	555

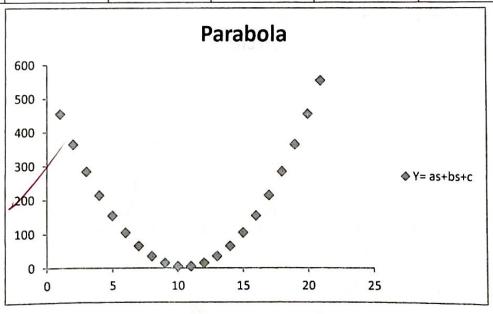
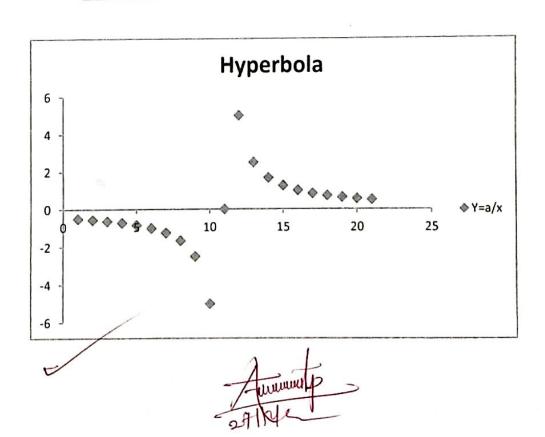


Chart 3: For Hyperbola

Sr. No.	Values of 'a'	Value of 'x'	Y = a/x
1	5	-10	-0.5
2	5	-9	-0.55556
3	5	-8	-0.625
4	5	-7	-0.71429
5	5	-6	-0.83333
6	5	-5	-1
7	5	-4	-1.25
8	5	-3	-1.66667
9	5	-2	-2.5
10	5	-1	-5
11	5	0	#DIV/0!
12	5	1	5
13	5	2	2.5
14	5	3	1.666667
15	5	4	1.25
16	5	5	1
17	5	6	0.833333
18	5	7	0.714286
19	5	8	0.625
20	5	9	0.555556
21	5	10	0.5





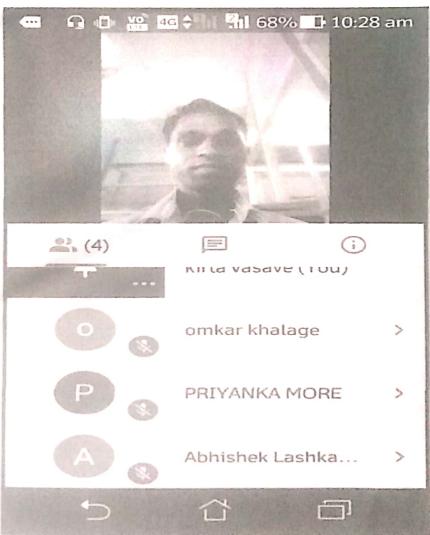
Dada Patil Mahavidyalaya, Karjat

Dist.- Ahmednagar [MS] NAAC Re-accredited 'A' Grade 2020-21

Department of English

Use of ICT for Effective Teaching, Learning and Evaluation Use of Google Meet for Online Lecture

19th November, 2021



Online Lecture on Google Meet

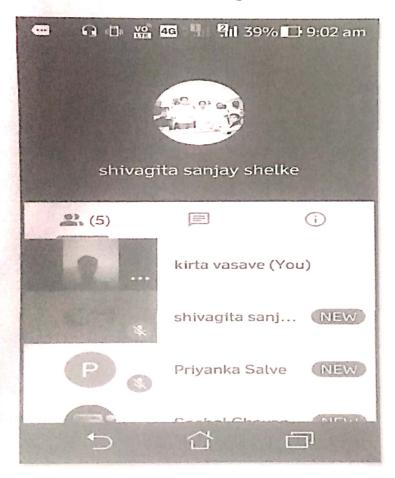


Dada Patil Mahavidyalaya, Karjat

Dist.- Ahmednagar [MS] NAAC Re-accredited 'A' Grade 2020-21

Department of English

Use of ICT for Effective Teaching, Learning and Evaluation Student's Use of Google Meet/ ICT







Rayat Shikshan Sansthas Dada Patil Mahavidyalaya Karjat (Dist.-Ahmednagar)

Date: 14.11.2022

Department of Physics (UG Section)

-NOTICE-

All the S.Y.B.Sc Physics students are hereby informed that your Group discussions have been organized on the day of 19.11.2022 (Saturday) for the Subject of Physics.

It is a very essential activity for your academic endeavor. Therefore, be present and attend/ participate in the same.

The topic of Group Discussion, Venue, Date, and time is as follows:

Topic: Why Physics is Important in Our Daily Life....?

Date: 19.11.2022; Time: 12.00 pm-01.00 pm

Venue: Physics Practical Laboratory

Subject In-charge:

1. Dr. M. S. Bhadane

2. Mr. B. S. Maharnavar

Head Dr. S. G. Alube Head

Dept. of Physics Dada Patil Mahavidyalays Karjat, Dist. Ahmednagar



Rayat Shikshan Sansthas Dada Patil Mahavidyalaya Karjat (Dist.-Ahmednagar)

Date: 19.11.2022

Department of Physics (S.Y.B.Sc)

-Group Discussion-

(Topic: Why Physics is Important in Our Daily Life.....?)

-Attendance-

Sr.	Nama	Signature
No.	Name	Signature
1)	Shinde Péanjali	Aigde
2)	Shendage Sayali Bhosale Nikita	andge.
3)	Bhosale Nikita	Asherds
4)	Gulame Pratikaha	Dinon
5)	Gawade Sakshi	Hes
6)	Gaware Swapnali	Goward
7)	Pote Vidya	OBLE
8)	hunguae minitu	language
9)	Kangude Sushama	bungmese
10	Dhobe Vaishnavi	
11	Rokode Java	RekadeD
12	Shinde Snehal	July
13	Khatake Vaishnavi. S	Antake
14	Pazdeshi Neha	Deha
15	supekar breha	Euro
16	Sopekar Rutuja	Supekar.R.G.
17	Mandage Shubhangi	Bundage
18	Shaikh Roina	Shaikh Rn
19	Pawae Pratiksha	Poure P.S.

Bhise Gaurava Creasist 21 Kawade Sneha 22 Shinde Pratiksha Ruz. 23 Rugade Vaishnavi Ragade 24 Tanpure Neha 25 kashid Poosa Poojawar 26 Sonmali Renuka Samali 27 khedkuz Rutuja D znakori 28 Gaikwad Madhuni Shikwad. 29 Shipkule chaitali ahipkula 30 Bamane Shubhangi hubhandi 31 Bhosale Poota: Ruseletta 32 Bhavae Sakshi Behave 33 Mandage Sandip Sunandage 34 Sudrik Vishal Subikula 35 Modhale Sanket Sahikula 36 Shinde Shubham Shindesa 37 Kungude Ajay Zijeru 38 Anbhule Saurabh Shindesa 39 Mandage Abhijee Madhird 39 Mandage Abhijee Madhird 40 Sudrik Rohan Shi		
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Tunpure Neha Canpurent Tashid Pooja Poojande Sonmali Renuka Sanmali Thedrox Rutuja D Hadrox Medkar Rutuja D Hadrox Makara Rutuja D Hadrox Shipkale Chaitali Thipkala Bamane Shubhangi Indhangi Bhasale Ponta- Bhate Bhavae Sakshi Behare Mandage Sandip Frandage Mandage Sandip Sudrikual Sudrik Vishal Sudrikual Shinde Shubham Shindesm Mandage Abhijea Mathid Mandage Abhijea Mathid Mandage Abhijea Mathid Mandage Abhijea Mathid		wi Rigarde.
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28 Gaikwad Madhuni Gaikwad. 29 Shipkule Chaitali ahipkula. 30 Bamane Shubhangi Anthangi 31 Bhasale ponta. 32 Bhavae sakshi Behane 33 Mandage sandip smandage 34 Sudrik Vishal Sudrikula 35 Madhale Sanket Sanket 36 Shinde Shubham Shindesm 37 Kungude Ajay Tijeru 38 Anbhule Saurabh Anbhule 39 Mandage Abhijee Madhird	25 kashid Pooja	Projector
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Mandage Abhijeet Mathird	20 .	bh Ambhulo
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	ACTIVITY Group No. IM T W T F S S Pagé No.: YOUVA
	Group diss cussion Date:
	· Why physics is important in daily life.
	Shinde Pratiksha Pandyrang duis.
	kawade sneha Ankush stawade.
	Ragarda Maichnaui Navnath
1,410	Tampure Meha sanvivan
	supekar Rutuja Crorakh supekar. R.G.
	The first the state of the stat
	, we the self of the property of the
	A.C. II
当	• If physics is absent in our life then we
	can't launch rockets, satellites & we can't
7.0	exa get informed about moons Mars.
	Because of physics we knows living thing are
1	exist on ear Mars & We knows about water
	is present on Moon.
	· We knows about our galaxy, Black whole on
	space, gravity in space,
	· If physics is not used then we totaly unknown
1000	from & Universe, there physics must use to
	study of universe.
	· Rea living things are flow on dead sea it is
	totaly physics.
	· Because of satellite we use internate & we
	will abbe to see T.V. Computer & many softwares
	· Alarm - It acts when we want that's why
	we are not late in daily rootine.
	· Camera - We click the moment due to camera
	but its made by using nanotechnology
	• Thermas - Thermas is the application of
	thermodynamics which can not be exchange
	heat.
	· Gravity - Due to gravitational Force we stable
	on earth twe easily capable to stand.

	M T W T F S S Page No.:
. (1992)	Activity - Group Discussion Date: YOUVA
	Topic: - Why physics is important in our Daily life
	liFe
	Group:-(2)
	1) Bhosale Nikita Arun Bhosals
	2) Shinde pranjali Machindra diale
	3) Shendage Sayali Dadaso
	4) Kashid pooja Umesh Boja.v.k
	Points:
	Steam Iron - Need as to press the cloth.
2)	Laser - It is used in Medical field.
3)	Automobile - Works on the basis of thermodynamics.
4)	1,4041
	propagation.
5)	Headphones - Used to listen the music.
6)	Walking - When you get ready for school loffice walking in morning time you can easily walk is just of physics.
	walking in morning time you can easily
	walk is just of physics.
	Camera lense - It is used in to capture the
	Photos.
8)	
9)	Refrigerator- It is used to keep fresh vegetables.
(0)	Alarm clock - Physics gets involves in your daily
	Refrigerator- It is used to keep fresh vegetables. Alarm clock-Physics gets involves in your daily life after you walke up in morning.
11)	The food:
12)	Sound - It is used in speaker.
1	

Group-3 Page Ha. Vouva

Activity - Piscussion.

	The second secon
*	Why Physics is Important in daily life
the contract of the contract o	Group-3
0	Gauravi Kantilal Bhise alahise
0	Shaikh Rojina Mustak Shaikh R.m
(3)	Shubbanas Sharad
4	Shower scikshi Galendea
(3)	Pawae Pratiksha Subhash Powers.
	TAMAR TARTISTA CASTON
0	C. Mannat
<u> </u>	Compus - Magnet It use for direction indicator
	It use too direction marcator
~	
(1)	Spect - lens
	It is use to see
	- convex lens ? optics
	- Concave lens
3	Newton's law -
	Human's being isstand for the gravitational
	force
4	Thermometer
	They are used for measure a temprature.
	They are used too measure a remplature.
(e)	
(3)	Tethscope -
	To measure heart beat.
6	Tourch
(£)	Smartwatch
3	Lock
(3)	Exag machine Xzay machine
6	Printer

1	Activity - (Group Discussion)
	Why physics is important in our daily life.
	Group No -4
ł.,	
ら	pote vidya Ghanshyam.
2)	Rotade Taya Dnyandev.
3)	Gulme pratiksha Rajendra.
4)	Pardeshi Neha Ramesh singh
5)	khatke Vaishnavi Sharad.
	points -
1)	Halking
1	
	walking, Inside
2	The santing partle
3	photo's
4	
	provide light.
5	> xerox machine - Use as a printer.
6	Computer - It used to data store.
7	
8) prism - Reflection of light.
-	

Activity - Group disscussion.

Date Page

Group No: 10.

Topic - Why physics is important in our daily

- · Group-members-
 - O shahane Jayesh
 - 2 Parekar Rajendra.
 - 3) Waghmare Pramod
 - 4) modhale sanket.

Points -

- i) X-Ray It is very important in Identify Damaged body parts. It show Accurate image of innert parts.
- ii) Teliscope It is used to see long distance planets. In it used high quality lens.
- iii) Rocket It is used to send Artificial sattelite from earth to space.
 In it urenium is used as fual.
- iv) Artificial Intiligence -
 - ·There are to identify coiminal activity.
 - · It is used in CCTV cameras.
- W Nuclear weapons -
- e.g. Nuclear Bombs >
- is Rainbow Reflection of hight

Group No. - 8 Activity - Group Discussions. Q. Why physics in daily life ? Sign Mabhiral Mandage Abhiject Lala Anthule Anbhule Saurabh Balasaheb Kangade Ajay Sunil Fley Sudrik Rohan Dadasaheb = Ral IJ Solar System in solar & Sun light in enters Solar panal and solar panal convert light energy into electrical energy Voltmeter To measure the current and Electric material check on & off. 3) Disel Engene - it is the four Stroke Engene, It use in four wheely car's To Improve the speed of car. 4) Smart watch - in Smart watch digital coding system is used. Radio - Semiconductor are used in Semi-Conducter. 6) Nuclear energy - providing the electric Current in daily life. 7) coeight bose - Computer in Computer Binon System used.

Activity - Group Discussion

Date - 19/11/2022

	Group No-9
**************************************	Topic - Why Physics is important in your
	daily life
	Group - 9
	1) Shubham Mahadev Shinde
	@ Sandip Anil Mandage
	3 Vishal Ajinath Sudrik
	@ Aniket Suresh Sautade
	10 Omkar Sarjerao Thorat
	O solar energy is used in daily life for bailing water, cooking food, produce electricis and electric motor.
	10 Magnetic energy used for produce sound
	3 Voltage
	© electric motor is used in agriculture field succession of water
	Defence
	6 wind energy is used to produce electricity.
	D Automobile technology is working on the base of Thermodynamics physics.
	1 Mudeur energy is used to produce nucleur bomb.
1	

Activity - group discussion
Title: Why physics is important in our daily life
(Group)-6
Hame of student.
DBhosale pooja Gajendra
Deamane Shubhangi Bharat
3) Shinde snehal Alinath
Dsypekar sneha santosh.
points:
* car seat -belt
when you tighten your car seat belt, it works on the
concept of inertia.
* Earphones
the concept of sound wave
* Alarm clock
The buzzing sound of an alarm clock help you wake up
in the morning.
* dryer
wet clother are dired with the hot air of the dryen
of Tron
we get supply the current to iron then not air produce &
It is wed for we troning Flat the wrinkles outora
shirt.
* cell phone
Ft is digital instruments touches pad.
* heater choid water is converted
west get supply current, hot water is produces

	Activity & Group Discussion.
	Why physics is Important in Daily Life.
4.	GEOUP := 05
	Dhobe Vaishnavi Jaydon (my)
	Gaware Swappali Magar Gaward
3	Kangude Sushama Gizidhar Kongudes G
4	Kangude Nikita Gangaram Kangude-N-6
5	Gawade Sakshi Bhausaheb de
0 0	
	Paints ==
1)	Induction Cookers are the application of physics
	as it works on Faraday's law That Javice
	produces beat by inducting a current in the
	produces beat by inducting a current in the cooking vessel. It is useful in day today life cause it is partable and can be used everywhere
	cause it is partable and can be used everywher
	we want
2)	Alarm Clack is the application based on physics
	Whenever Alarm clock rings the air molecule
	neighbour to clock get vibrate and also make
	neighbouring molecule vibrate too, and that wave
	of energy that travel out from the clock. It
	is applicable to make up everyone and many
	is applicable to wake up everyone early mamin
3)	Ball per point is the concept of gravity. When
	your pen moves across the paper the ball
	turns and gravity forces the ink down anto
	January Michael Michae
	- Committee of the Comm

Rayat Shikshan Sansthas Dada Patil Mahavidyalaya Karjat (Dist.-Ahmednagar)

Date: 29/04/2022

Department of Physics (PG Section)

-Seminar Topic, Date, and Signature-

ယ	2		No.
Bhosale Rutuja A.	Bhosale Madhuri R.	Bankar Vrushali D.	Student Name
Electrical Properties: Hall Effect & Magneto-resistance in thin films	Electrical Properties: TCR and its effects.	Electrical Properties: Source of Resistivity in Metallic conductors	Physics of Thin Film -Seminar Topic-
Absent	e Station 43 Karjat, Maharashtra, India H244+W3, Beleiar Colony, Kerjat, Maharashtra 414202, India H244-W3, Beleiar Colony, Maharashtra 414202, India H244-W3, Beleiar Colony, Maharashtra 414402, India H244-W3, Beleiar Colony, Maharashtra 414	कर्णत, महाराष्ट्र, India +235+V7W, गाणंश पंड, Karjat, Maharashtra 414402, India Lat 18.554696° Long 75.098236° Google 06/05/22 12:31 PM	Photo
Absent	30.04.2022	06.05.2022	Date
Absent	Bhealem	Dwhau	Signature

13	12	1	10	9	~	7	6	S
Kolapkar Megha	Kasare Sudhir C.	Kasare Ravindra	Karande Megha B.	Karad Kiran K.	Hulage Sonali V.	Hoshing Prasad R.	Gawade Prashant	Galande Sima P.
Applications of Thin Films: Optical coating	Optical properties: Absorption and transmission.	Mechanical properties: Adhesion and its measurement with mechanical and nucleation methods	Applications of Thin Films: Junction devices Solar cells	Electrical Properties: Hall Eff. & Magneto-resistance in TF	Measurement of Thickness: Tolansky technique	Mechanical properties: stress measurement by using optical method	Electrical Properties: Influence of thickness on the resistivity of TF	Optical properties: Absorption and transmission.
Absent	Oral	E Station (A) Karjat, Maharashtra, India H244+YW3, Belekar Colony, Karjat, Maharashtra 414402, India Lat 18.56701° Long 75.006964° 06/05/22 12:50 PM	Karjat, Maharashtra, India Karjat, Maharashtra, India H244+VW3, Belekar Colony, Karjat, Maharashtra 414402, India Lat 18.557162° Long 75.007528° 02/05/22 10:19 AM	Absent	Absent	Absent	Oral	Oral
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C Direct County	Kolapkar Megha Applications of Thin Films: Absent	Kasare Sudhir C. Optical properties: Absorption and transmission. Oral Value 18.05.2022 Absent Absent	Kasare Ravindra Mechanical properties: Adhesion and its measurement with mechanical and nucleation methods Rechanical and nucleation methods Residue Ravindra Mechanical properties: Adhesion and its measurement with mechanical and nucleation methods Residue Ravindra Residue Ra	Applications of Thin Films: Junction devices Solar cells Mechanical properties: Adhesion and is measurement with mechanical and nucleation methods Kasare Sudhir C. Optical properties: Absorption Constant Control of Thin Films: Control of Control of Control of Thin Films: Kolapkar Megha Absent Absent Absent Occupants Occupants Optical properties: Absent Absent	Karad Kiran K. Hall Eff. & Magneto-resistance in TF Absent Applications of Thin Films: Junction devices Solar cells Junction and its measurement with mechanical properties: Adhesion and mucleation methods Kasare Sudhir C. Optical properties: Absorption Kasare Sudhir C. Optical properties: Absorption Kolapkar Megha Applications of Thin Films: Oral Absent Absent Absent Absent Absent Absent	Hulage Sonali V. Measurement of Thickness: Karad Kiran K. Electrical Properties: Hull Eff. & Magneto-resistance in Tr Absent Absent Applications of Thin Films: Junction devices Solar cells Mechanical properties: Addiesion and its measurement with mechanical and nucleation methods Kasare Ravindra Addiesion and in measurement with mechanical and nucleation methods Kasare Sudhir C. Optical properties: Absorption Kasare Sudhir C. Applications of Thin Films: Absent Absent	Hoshing Prasad R. Mechanical properties: stress Karad Kiran K. Hall Eff. & Magneto-resistance in TF Hall Eff. & Magneto-resistance in TF Absent Absent	Cawade Prashant Chebrical Properties: Influence on the resistivity of TF Hoshing Prasad R. Mechanical properties: sures measurement of Thickness: Chebre Chebre

Absent	Absent	Absent	Electrical Properties: Source of Resistivity in Metallic conductors	Vidya Ravsaheb K.	23
) '	Absent	Oral Masent	Measurement of Thickness: Tolansky technique	Shinde Adesh M.	22
Absent	Absent	Absent	Applications of Thin Films: Thin film sensors (gas)	Shendge Avinash	21
Gaste J.B	19.05.2022	Oral	Mechanical properties: stress measurement by using optical method	Saste Rushikesh B.	20
Absent	Absent	Absent	Optical properties: Absorption and transmission.	Raut Manda B.	19
Brust	19.05: 2021	Oral	Electrical Properties: Influence of thickness on the resistivity of TF	Pawar Rupali J.	18
Topica -	19.05.2022	Oral	Electrical Properties: TCR and its effects.	Nalawade Rutuja S.	17
@londbe.		Karjat, Maharashtra, India H245-H57, Belekar Colony, Karjat, Maharashtra 414402, rcra Lat 18.557136° Long 75.0081:55° 29.04/22 12:13 PM	Electrical Properties: Hall Effect & Magneto-resistance in thin films	Londhe Anita A.	16
18.05,2022 Kampfreys St	18.05.2022	Oral	Applications of Thin Films: Thin film sensors (humidity)	Kumbhar Sagar L.	15
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Subject In-Charge
(br. Bhudane M. s.)



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HoD
Head
Dopt. of Physics
Deda Patit Mahavidyalaye
Karjat, Dist. Ahmednagar



Date: 25.03.2022

Department of Physics (PG Section)

All M.Sc-2 students are hereby informed that please refer to the below table for your seminar and assignment topics for the Subject of *Physics of Thin*Film It should be noted that the date of the seminar and the singular topic for the subject of the seminar and the singular topic for the subject of the seminar and assignment topics for the Subject of *Physics of Thin* Film. It should be noted that the date of the seminar and the given topic is final and no changes will be made in it.

Sr.	Student Name	Seminar Topic	7.04.2022
No.	Bankar Vrushali	Electrical Properties: Source of Resistivity in Metallic conductors	25.04.2022
	D. Bhosale Madhuri	Electrical Properties: TCR and its	25.04.2022
2	R.	effects. Electrical Properties:	25.04.2022
3	Bhosale Rutuja A.	Hall Effect & Magneto-resistance in thin films Electrical Properties: TCR and its	25.04.2022
4	Borade Janabai I.	effects. Optical properties: Absorption and	26.04.2022
5	Galande Sima P. transmission. Electrical Properties: Influence of CTE.		26.04.2022
6	Gawade Prashant	thickness on the resistivity of 1r	
7	Hoshing Prasad R. Mechanical properties: stress		26.04.2022
-	Hulage Sonali V.	Measurement of Thickness: Tolansky	26.04.2022
9	Karad Kiran K. Karad Kiran K. Electrical Properties: Hall Eff. & Magneto-resistance in TF		27.04.2022
10	Karande Megha	Applications of Thin Films: Junction devices Solar cells	27.04.2022
11	B. Kasare Ravindra	Mechanical properties: Adhesion and its measurement with mechanical and nucleation methods	27.04.2022
12	Kasare Sudhir C.	Optical properties: Absorption and transmission.	27.04.2022

1 and	no changes will be	Applications of Thin Films:	28.04.2022
13	Kolapkar Megha	Applications of Think	28.04.2022
14	Kshirsagar Pooja	Applications of Thin Films: Thin film sensors (gas) Applications of Thin Films:	28.04.2022
15	Kumbhar Sagar L.	Thin film sensors (humidity) Floatrical Properties: Hall Effect &	28.04.2022
16	Londhe Anita A.	Magneto-resistance in thin films Electrical Properties: TCR and its	29.04.2022
17	Nalawade Rutuja S.	effects. Electrical Properties: Influence of	29.04.2022
18	Pawar Rupali J.	thickness on the resistivity of TF Optical properties: Absorption and	29.04.2022
19	Raut Manda B.	transmission.	
20	Saste Rushikesh B.	Mechanical properties: stress measurement by using optical method	29.04.2022
21	Shendge Avinash	Applications of Thin Films: Thin film sensors (gas)	30.04.2022
22	Shinde Adesh M.	Measurement of Thickness: Tolansky technique	30.04.2022
23	Vidya Ravsaheb K.	Electrical Properties: Source of Resistivity in Metallic conductors	30.04.2022

Subject In-Charge

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Rayat Shikshan Sansthas Dada Patil Mahavidyalaya Karjat (Dist.-Ahmednagar)

Date: 29/04/2022

Department of Physics (PG Section)

-Seminar Topic, Date, and Signature-

Sr. No.	Student Name	Physics of Thin Film -Seminar Topic-	Photo	Date	Signature
1	Bankar Vrushali D.	Electrical Properties: Source of Resistivity in Metallic conductors	कर्जत, महाराष्ट्र, India H235+V7W, गाणेश पेठ, Karjat, Maharashtra 414402, India Lat 18.554696° Long 75.008236° 06/05/22 12:31 PM	06.05.2022	Pushau'
2	Bhosale Madhuri R.	Electrical Properties: TCR and its effects.	e Station (All State Colony, Karjat, Maharashtra 414402, India Lat 18.557012° Long 75.006961° 30/04/22 01:11 PM	30.04.2022	Bheselene
3	Bhosale Rutuja A.	Electrical Properties: Hall Effect & Magneto-resistance in thin films	Absent	Absent	Absent

5	Galande Sima P.	Optical properties: Absorption and transmission.	Oral	19.05.2022	goon't
5	Gawade Prashant	Electrical Properties: Influence of thickness on the resistivity of TF	Oral	18.05.2022	gosiit
7	Hoshing Prasad R.	Mechanical properties: stress measurement by using optical method	Absent	Absent	Absent
8	Hulage Sonali V.	Measurement of Thickness: Tolansky technique	Absent	Absent	Absent
9	Karad Kiran K.	Electrical Properties: Hall Eff. & Magneto-resistance in TF	Absent	Absent	Absent
10	Karande Megha B.	Applications of Thin Films: Junction devices Solar cells	Station Karjat, Maharashtra, India H244+VW3, Belekar Colony, Karjat, Maharashtra 414402, India Lat 18.557162°	02.05.2022	Karanden

			Karjat, Maharashtra, India H244+VW3, Belekar Colony, Karjat, Maharashtra 414402, India Lat 18.557162° Long 75.007528° 02/05/22 10:19 AM		
11	Kasare Ravindra	Mechanical properties: Adhesion and its measurement with mechanical and nucleation methods	E Station (a) Karjat, Maharashtra, India H244+VW3, Belekar Colony, Karjat, Maharashtra 414402, India Lat 18.56701° Long 75.006964° 06/05/22 12:50 PM	06.05.2022	Posate R.V.
12	Kasare Sudhir C.	Optical properties: Absorption and transmission.	Oral	18-05-2022	Beron
13	Kolapkar Megha	Applications of Thin Films: Optical coating	Absent	Absent	
14	Kshirsagar Pooja	Applications of Thin Films: Thin film sensors (gas)	Absent	Absent	Absent

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15	Kumbhar Sagar L.	Applications of Thin Films: Thin film sensors (humidity)	Oral	13.05.2021	- Kumbheur St
16	Londhe Anita A.	Electrical Properties: Hall Effect & Magneto-resistance in thin films	Karjat, Maharashtra, India H245+H57, Belekar Colony, Karjat, Maharashtra 414402, India Lat 18.557136° Long 75.008155° 29/04/22 12:13 P.M		@londhe.
17	Nalawade Rutuja S.	Electrical Properties: TCR and its effects.	Oral	19.05.2022	Totala
18	Pawar Rupali J.	Electrical Properties: Influence of thickness on the resistivity of TF	Oral	19.05. 2022	
19	Raut Manda B.	Optical properties: Absorption and transmission.	Absent	Absent	Absent
20	Saste Rushikesh B.	Mechanical properties: stress measurement by using optical method	Oral	19.05.2022	Gdste. R.B
21	Shendge Avinash	Applications of Thin Films: Thin film sensors (gas)	Absent	Absent	Absent
22	Shinde Adesh M.	Measurement of Thickness: Tolansky technique	(m) Absent	Absent	- '
23	Vidya Ravsaheb K.	- · · · · · · · · · · · · · · · · · · ·	Absent	Absent	Absent

Subject In-Charge
(Dr. Bhudana M. S.)



HoD
Head
Dept. of Physics
Dada Patil Mahavidyalaye
Karjat, Dist. Ahmednagar



Dada Patil Mahavidyalaya, Karjat

Dist.- Ahmednagar Department of English

Academic Year- 2020-21 Student-Centric Teaching & Learning Methods

Students' Seminars

Notice

Date: 04 / 03 /2021

All the students of T.Y.B.A. are hereby informed that the Students' Seminars activity of the students will be organized by the department on Tuesday, 10th March, 2021 All students should actively participate in the activity.

Time: 11.30 a.m.

Venue: Hall No.-19

(Mr. Vasave K.O)

Denetwentothighish Dada Patil Mahavidyalaya, Karjat



Dada Patil Mahavidyalaya, Karjat

Dist.- Ahmednagar [MS] NAAC Re-accredited 'A' Grade 2020-21

Department of English

Student Centric Teaching and Learning Methods

Students' Seminars



Students gave seminars in classroom based on the syllabus.



Dada Patil Mahavidyalaya, Karjat

Dist.- Ahmednagar [MS] NAAC Re-accredited 'A' Grade 2020-21

Department of English

Student Centric Teaching and Learning Methods

Students' Seminars



Students gave seminars in classroom based on the syllabus.

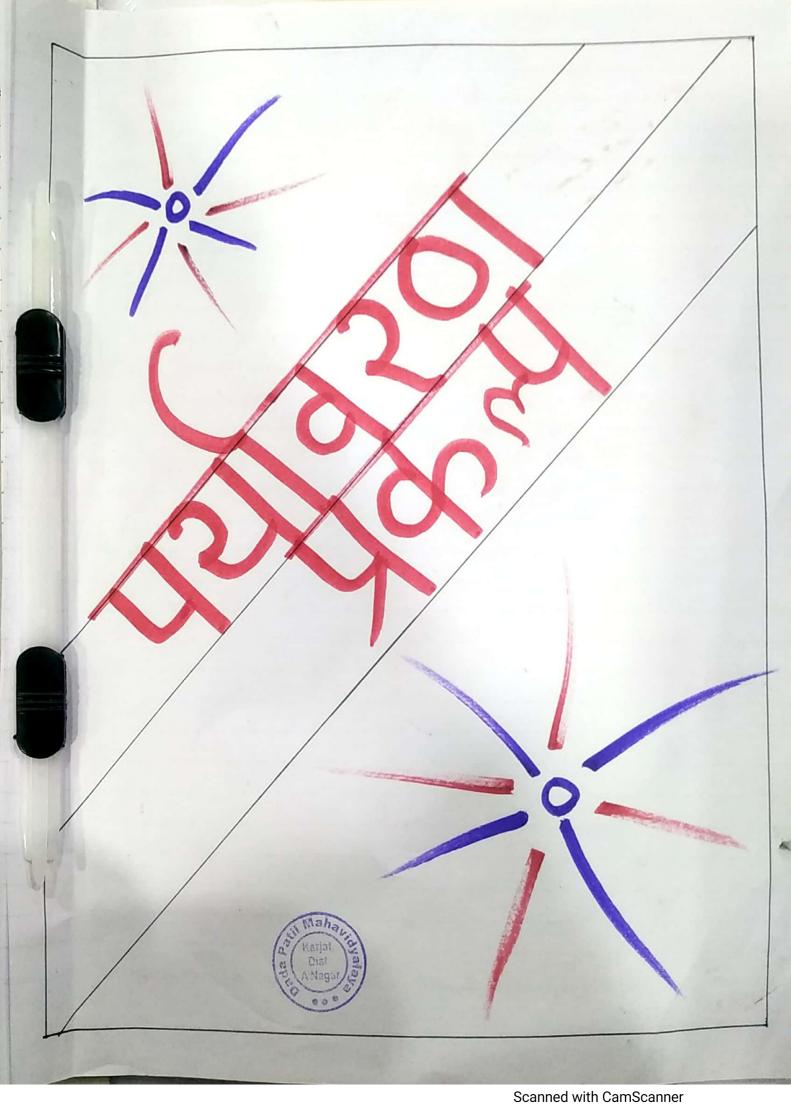
Rayat Shikshan Sanstha's DADA PATIL MAHAVIDYALAYA, KARJAT

Tal. Karjat, Dist. Ahmednagar.

ATTENDANCE SHEET OF ICT LECTURE

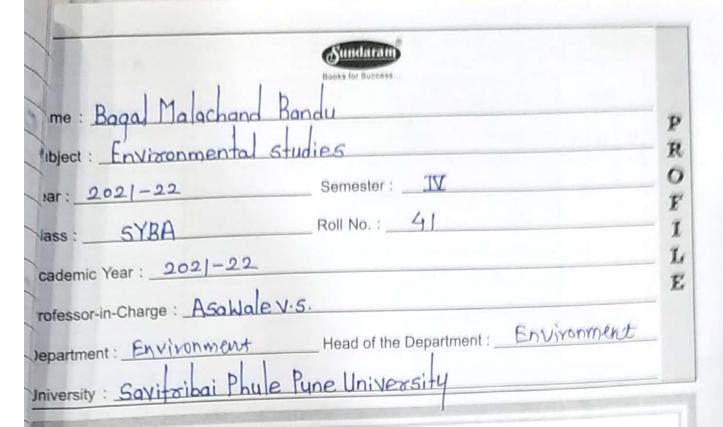
Name of the Teacher: Vasuve K.O.					
Designation	Assit prof	Subject	English		
Class Taught	TUBA	Paper	54 En8/18h		
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Points Covered U	nder topic:				
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Sr. No.	Roll No.	Name of the Students	Signature
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CIERTITIFICATE

Class: 5YBA

Year: 2021-22

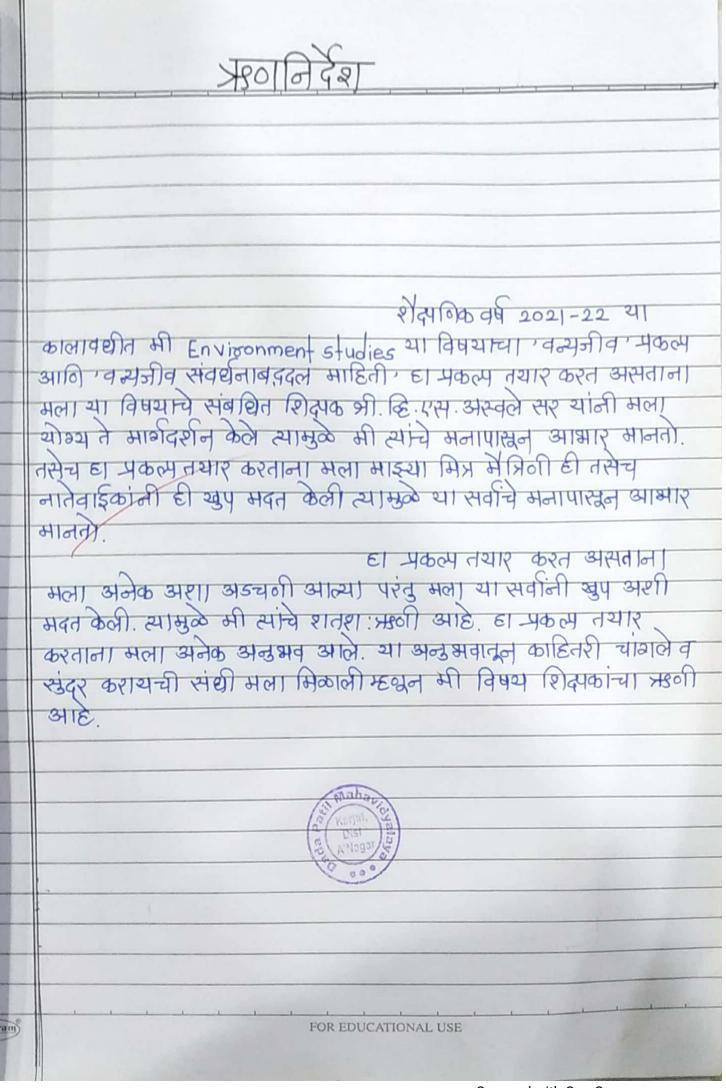
This is to certify that the work entered in this journal is the work of

Kumar/Kumari Bagal Malachand Bandu

who has worked for the 1st / 2nd / both Term(s) of the year in the college laboratory.

Head of the Department

Date: 10/02/2022



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8.	वत्थुजीवांना अस्मेले छोके			
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0.	निस्कर्ष			
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विसाठ्या शत्कानील वेसमार वाहत जानान्या लोक्संञ्योचा वत्य जीवांचा अस्तित्वावर भोठ्या यम्नानावर परिवास साला आहे. सानवाची वाहत जावारी लालमा आवि हाव हे वस् जीवांची संख्या घटन्यांचे एक सुख्य कारन आहे. बोल्या काही वर्षीत कालेली वन्थ जीवांच्या क्लिल्या बेराउमार हत्या, पाळ्यांच्या हत्येवर बंदी अस्तान सिख्दा आनहीं मोड्या सस्तन् पान्यांची ही पार्धचीर हत्या करीत आहेत मार्व्याची हत्या करून त्यातून मिळगाऱ्या वस्तूला नागतिक बाजारपेटेत भरमसाठ किंमत मिळते. परंतु यामुळे निस्वाचा सम्तील मोड्या-प्रमाठाविर डासळत चालला आहे. आपल्या पर्याव्रगात अनेक अन्त्रसाखळ्या अस्रतात. पर्याव्रगातील या सामाल्यांमुळे या सृष्टीतील यथ्तेक सजीवाला अन्न मिळते आिठ तो आपला जीवन काळ पूर्व करतो. जर या अन्नुसाखळी मधील एक जरी दुवा नष्ट झाला तरीही साऱ्या पर्यापरवाचा समतोल विध्रह्म जाईल. अभि ग्रिकलीन्यी भाष्ट्रांभार्येन वस्त्रीवांना असलेले धोके, तसेच छोक्यात असलेल्या क्र्य जीवांच्या मनानींचे संख्या करव्यासाठी करव्यात येवाऱ्या उपाय योजना याबाबत सविस्तर माहिती करून होगार आहोत. FOR EDUCATIONAL USE Scanned with CamScanner

विष्याची माहिती

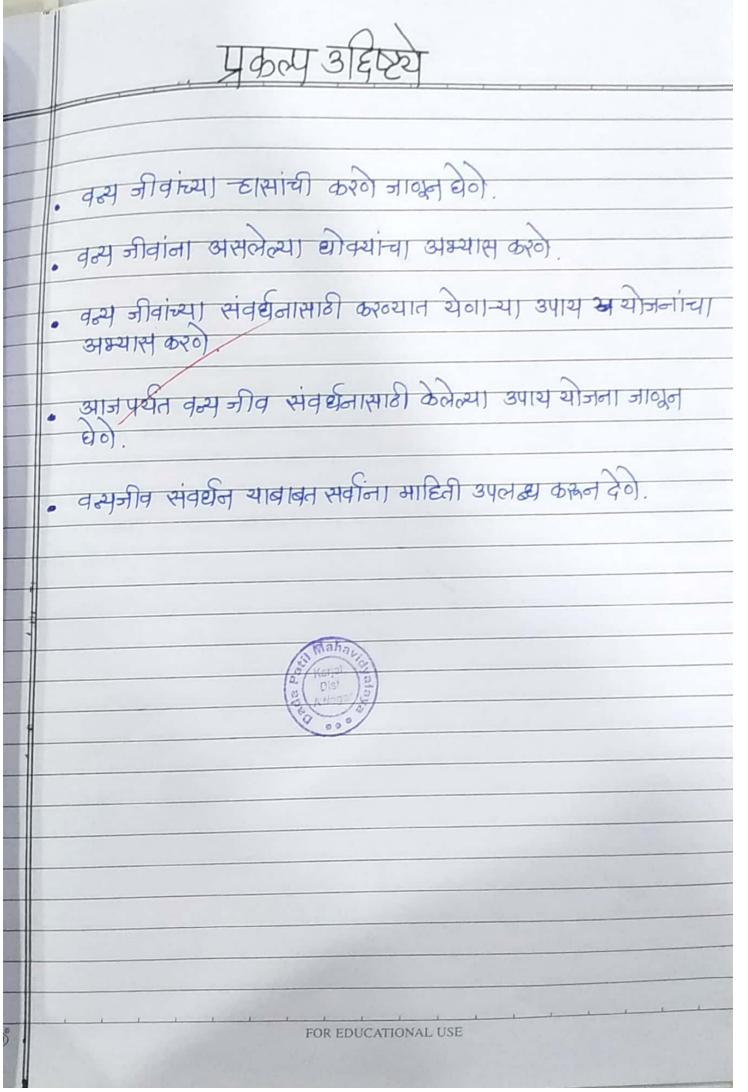
निसर्वाचा समराज अवाधित ठेवव्यासाठी आणि नेवृविविद्यमा डिकाल हेवव्यासाठी पर्यावस्थानील विविधता रिकद्मन ठेवने हे असंत भाष्ट्रीने आहे. सामध्ये वसमीवाच रस्भा करेंगे हे खब्दा तितकेच अहत्वाचे आहे. ग्रेट्या कि खेंड वर्षाणखून भानव हा वन्य नीवांच्या वरोवरीनेच था प्रश्वीनलावर भ्रत्यांभोविदान राहत आला आहे. परंतु केल्या काही दशकांची रिख्नी पहिली तर केल्या काही ३ ते ४ दशकांमध्ये मानदाने वत्य जीवांच्या वेसमार हत्या केल्या, वादत्या शहरीकरवात, ओद्योगिक करवात वृत्यू जीवाच्या शहव्याच्या जागा अध्वस्त करव्यात अरुया. वाहत्या मद्रुपवास्त्रे त्यां सा वृत्य जीवांच्या मनोत्पादन कियेक्श पतिकुल परिस्थिती निर्माण झाली आहे. आज वस्य नीवांना या प्रयावर्धात विद्वान राहने अवधं साले आहे. या सरीचा परिवास म्हाने आज अनेक माव्यांच्या जाती या नप्ट होव्यान्सा आशीवर खाहत

अस्वल , आकुड, हरीज , हली , वाद्य, सिंह थासार्थे माणी देखील नंगलातन् शहतात. म्हणनेन धनदार नंगल म्हणने सांचा निवार। असतो, नंगलातच् सांच्या गस्ता प्रशं होत असताम, परंतु मानवाच्या हरतद्येपासुके आज वार्णाचा हास होत चार्सला आहे. जर परिगामी वस्पनीव धोक्यात आले आहेत. जर वस्पनीवांची पातकी अशीच क्सी होत शहिली तर थेवाऱ्या काकात फार गंभीर परिवास बहुत थे हाकतात. म्हणून हे सर्व जर आंबवायचे असेल तर वस्यनीवांचे संवर्धन आणि संरक्षण करणे भरजेव आहे. म्ह्यून वन्यजीव संवर्धन या

विषयाचा अभ्यास करने भरने आहे.



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पुकल्प कार्शपद्धती

वस्त्रजीव संवर्धन् या मुकल्प विष्यावावन आहिती मिळविन्यासाठी भी वर्तमान प्रते, पर्यावरन विष्यक प्रस्तेक यांच्या भाष्ट्रमाद्भ आहिती मिळविनी. तसेन्य पिरपरातील लोकांशी वर्षा करून वन्य जीव संवर्धन या विषयाबावन त्यांची मते जाव्यन होतली. त्यांचांशी संवाद साधून माप्त इनालेल्या आहितीन्या आद्यारे मकल्पाचे भद्रदे तथार करव्यात आले. तथार झालेल्या भद्रयांबावन अहिक सविस्तर आहिती मिळवना यांवी यासाठी भी आंतरजालावर (इंटरनेटवर) उपलब्ध असलेल्या श्रीसिकि संकेतस्थळांचा वेबसाईन्या वापर केला. उपलब्ध आहितीचे संकलन केले. अशा मुकारे मुकल्पाबावन आहिक भाहिती मिळवन श्रीविचे संकलन केले. अशा मुकारे मुकल्पाबावन आहिक भाहिती मिळवन श्रीविचे संकलन केले. अशा मुकारे मुकल्पाबावन आहित केली व ती आहिती मुकल्पामचे जिरीद्यान वाली आहे. सदर नमूद केलेल्या आहिती मिळवन आहिती मिळवन केलेल्या आहिती मुकल्पाचे जिरीद्यान वाली आहे. सदर नमूद केलेल्या आहिती न्यांची आहितीच्या आहिती निष्कि यांची



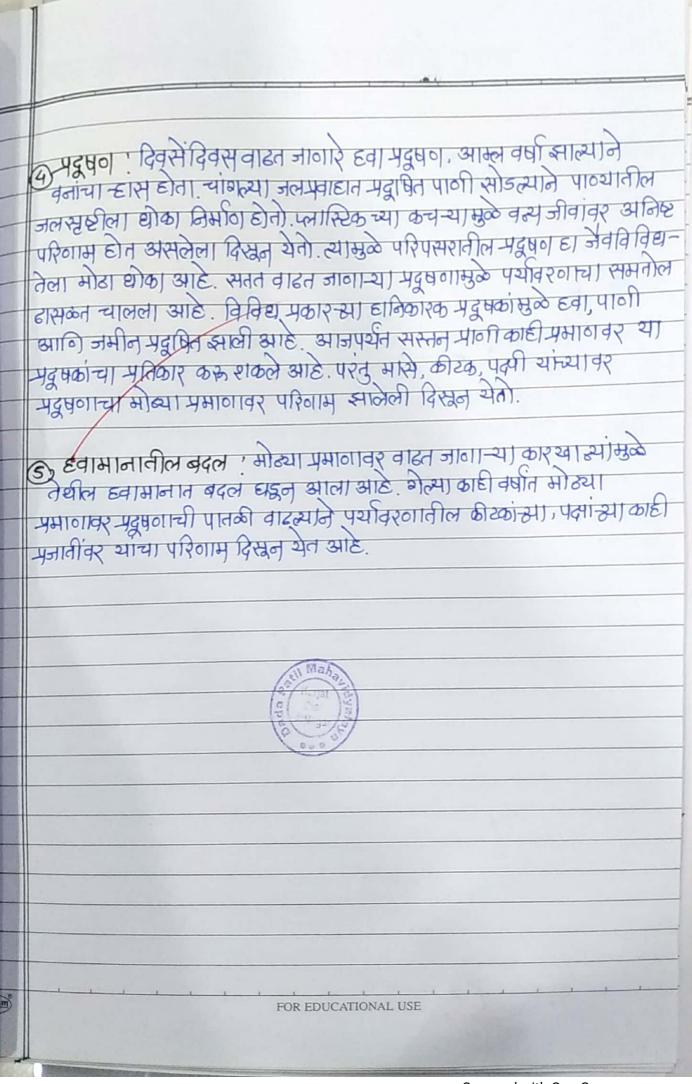
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मुकल्प विकासन

वर्भनीवांना असलेल छोके ! पर्धावरवातील सगळ्या परिसंस्थांचा! समतोल राखव्यासाठी त्या सशक्त ठेवव्यासाठी या पृथ्वीवरील सर्व मकारातील प्राव्यांच्या मजाती अत्यंत सहत्वाच्या खाहेत. परंतु आज या जैविविद्यतेला प्रदील कारवां सुळे छोका पोड्यतआहे

- त द्र्यजीवांच्या अधिवासाचा न्हास 'व्याजीवांच्या राख्यांच्या जागेचा न्हास, संसाधवांचे अतिशोषण, शेती ढरूव्यासी पद्धतीमध्ये केले जाणारे बदल आणि वादती लोळसंख्या ही म्विविधना धोक्यान चेष्यामागची यस्य कारणे आहेत. अधिवासाची विविध मागांन विभागणी झाल्यांने जिमितिये पडलेले छोटे छोटे तुक्छे जैक्विविधतेचा भार झेपवू शकणार नाहीत वाहत्या नागरी वस्तीसुळे सस्तन प्राणी व पदिश यांच्यासाठी अवस्थक असवारे क्षेत्र प्रमाणापेदपा कभी झाल्यांने काही प्राणी आणि पद्मी यांची संख्या कभी होताना दिसत आहे. परिणाभी काही जीवांच्या जाती या परिसराद्वन खुप्त होव्याच्या मार्गावर आहेत.
- 2) पर्यावरवाचि अतिशोषव ! मोड्या प्रमावावर परिसरात केली जावारी शिकार, मासेमारी तसेच पिक द्वेव्यासाठी जमीन उपलब्ध व्हावी यासाठी मोड्या प्रमावावर केलेकी जंगलतेड यांमुळे जेवविविद्यतेचे मोड्या प्रमावावर न्यकसान होत असल्याचे समोर आले आहे.
- 3 परिसरात परकीय जनावरांची वादती संख्या ! एखादा हिकानी सुद्धवाती-पासून त्या हिकानी परिसंस्थेत नसवाऱ्या मजानी आन्याने त्या हिकानी असनाऱ्या एक जनावरांच्या मजानींना बोका निर्मान होतो. परिसरात नवीन मजानीच्या विदेशी गांधी, म्हशी आन्या गेल्याने तेबील स्थानिक मजानी नामशेष होन्यांच्या मार्गावर आहेत.

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वस्य जीवांचे संवर्धन करुशासाठीचे उपाय

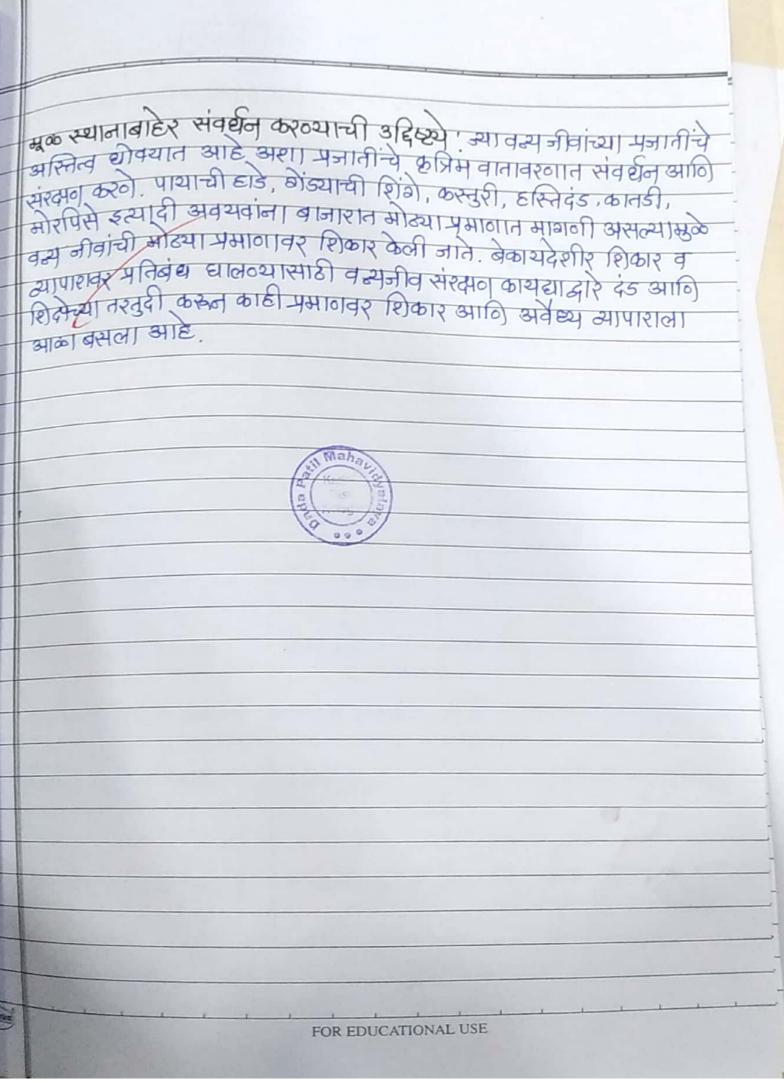
पाठ्यांचे त्या अधिवासाच्या नाभी सर्वर्धन : या प्रकारच्या संवर्धनामध्ये द्योक्यात. अस्ताच्या प्राव्यांचे अधिवास संराक्षित केले नातात. नेवाविविधतेचे संरक्षण कर्त्व्यासाठी राखीव देवलेली नमीन अस्ते. आपली राष्ट्रीय उद्याने किंवा अस्यव्या आही संवर्धन केले नाते.

राष्ट्रीय उद्याने व अस्य वस्यनीव अश्रयार्०ये । वस्यनीवांचे त्यांसा मूळ अधिवासातच संरवण आणि संवर्धन करन्यासाठी आज भारतासा विविध्य आजांमध्ये राष्ट्रीय उद्याने व वस्यनीव अभ्यार्०ये उभार्ज्यात आक्रेली आहे. उत्तरांचल येथे अस्वारे जीव कोबेट त्याद्य प्रकल्प, मध्य प्रदेश येथे कान्हा आणि ब्रांधकाड राष्ट्रीय उद्यान, युजरात येते अस्वारे भिर राष्ट्रीय उद्यान, राअस्थान राज्यामध्ये अस्वारे रवायंबोर राष्ट्रीय उद्यान इ



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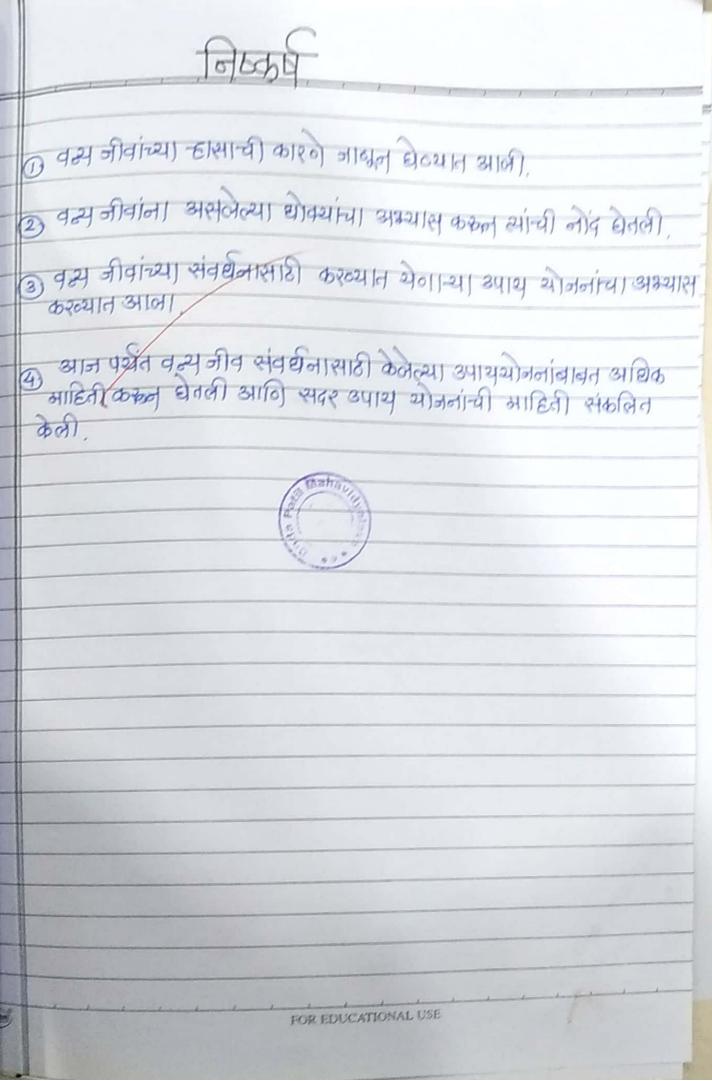
1.05	स्थान	आध्र मकल
9.	अमरावनी	मेळ घाट
2.	वद्य	बोश
3.	पश्चिम घाट	सह्याद्री
8.	क्रींदिया	नवेशाव नागिसरा
y.	चंद्रप्र	ताडोबा अंद्यारी
ξ.	नागप्र	पेंच
บเกา ง	मंशहास्त्री स्मळ स्थानाती	संवर्धन : प्रार्थाचे त्यासा सूळ स्थितीतील यामध्ये वनस्पती उद्यान, प्राठी संघटालये रे संवर्धन केलेजाते. ले संवर्धनासा प्रयत्नांना प्रस्क म्ह्यून प्राणी प्रिम् वातावरनार प्राज्यासा संवर्धनाचे शामध्ये अनेक प्रानी संग्रहालये विकसित

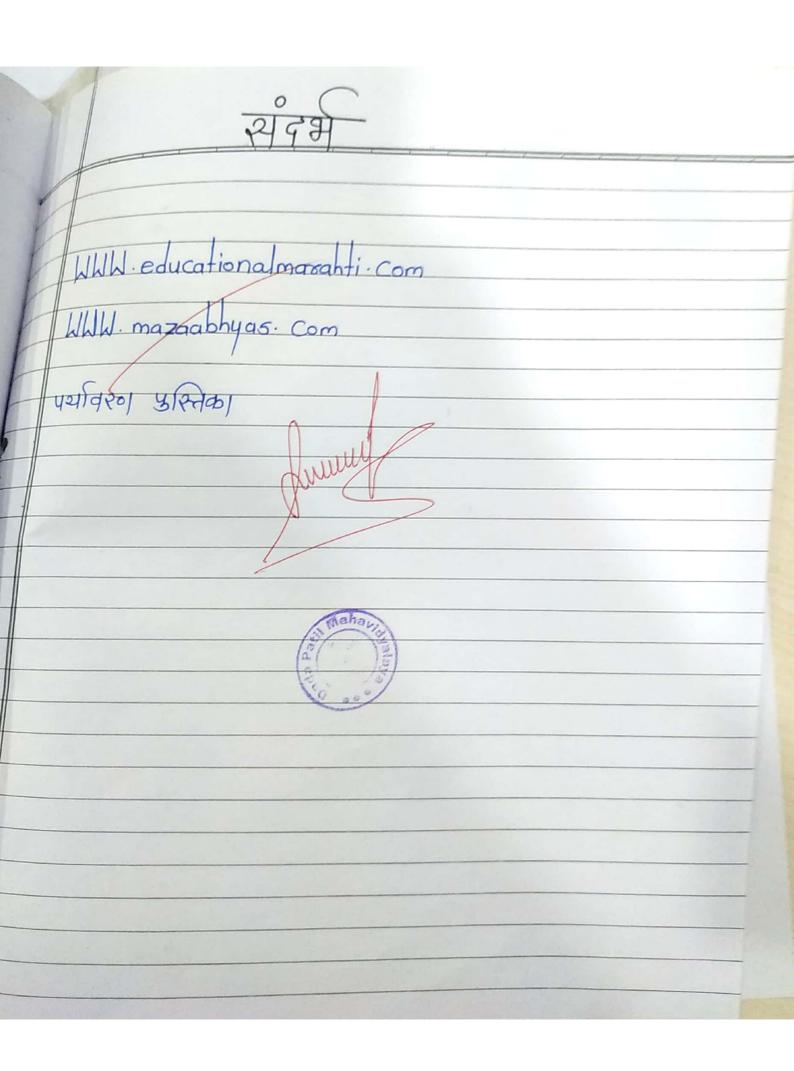


पकल्प निरीक्षे

भारवातील	काही	भेज्जी	संवर्धन	आि संश्द्य	ा विद्याश	्रित्यप्राप्ति ।
				3 1141	1 12011013	छ।एम्पाण,

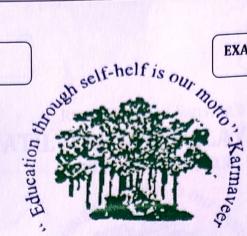
संरक्षित केले ना		
संरक्षित केलेल्या विभागाचे नाव	रा <u>ज्</u> य	संवर्धन करन्यात आलेले पानी
मानस राष्ट्रीय उद्यान	असाम	जंगली म्हेस
पेरियार राष्ट्रीय उद्यान	केरक	हती, शुंकारे हरीन , सांबर
भार राष्ट्रीय उद्यान	गुनरात	सिंह जंगली अस्वले, चितळ, सांबर
बंदी प्रर शक्रीय उद्यान	dea	पानर,वाद्य, हली, भारतीय अने
कोल्लेस राष्ट्रीय उद्यान	आंद्रापदेश	पेलिकन व सम्बद्धी पद्धी
जलदापद राष्ट्रीय उद्यान	पश्चिम् बंगाल	2):}
कान्हा राष्ट्रीय उद्यान	मध्य <u>प्र</u> देश	वाघ, चिता ,बार्सिंगा
दाचीगाभ् राष्ट्रीय उद्यान	नम्भूव काश्मीर	मेंही, वृत्युबकरी, काश्मिरी सांबर
कोर्बेट राष्ट्रीय उद्यान	उत्तरां चल	वाध, शुंक गारे हरी ग्र. अस्वल
केवलदेव राष्ट्रीय उद्यान	राज्यस्थान	बदके, पलेभिंगो.
	Maha	





ROLL NO. 116

EXAM SEAT NO. //6



Rayat Shikshan Sanstha's

DADA PATIL MAHAVIDYALAYA, KARJAT

DIST.AHMEDNAGAR

A PROJECT REPORT

ON

Air pollution.

SUBMITTED BY

NAME: Kopner Robini Honumant

CLASS: S.y. BSC

UNDER THE GUIDANCE OF

ms. M.Z. Shaikh.

SUBMITTED TO **DEPARTMENT OF ENVIRONMENT STUDIES**

ACADEMIC YEAR (2021-2022)

116

EXAM SEAT NO. 1 16

Rayat Shikshan Sanstha's DADA PATIL MAHAVIDYALAYA, KARJAT



DEPARTMENT OF ENVIRONMENT STUDIES

CERTIFICATE

Date: 23/05/2022

This is to certify that,

Kopher Rohini Hanumant Mr./Miss.

Has satisfactorily carried out the project work, prescribed by the Savitribai Phule Pune University for the S.Y.B.Sc. / S.Y.B.Sc. (Comp.Sci.) course in Environment Studies. This project work represents his/her bonafide work during the academic year 2021-2022.

Mshailsh

Teacher In-charge

Department of Environmental Awareness

Air pollution

Air is composed of ~78% nitrogen, ~21% oxygen, ~0.9% argon. The remaining elements include carbon dioxide, water vapour, hydrogen, and other trace elements. Although gases like carbon dioxide and methane may only exist in small absolute concentrations, their outsized heat-trapping potential as greenhouse gases makes them the major factor in accelerating climate change. Air pollution occurs when there is an alteration to the composition of air, either by volume, or in the chemical, physical, or biological properties. The atmosphere is a delicate balance of elements and particles. Any imbalance, even in small proportions can be detrimental to living organisms including animals and crops.

Air pollution is caused by a combination of gaseous and particulate pollutants such as carbon dioxide, methane, and nitrogen dioxide emitted from point sources such as factories and motor vehicles that burn fuel. Some gaseous emissions are visible to the eye and sometimes may even diffuse into the atmosphere and become invisible. Particulate pollution, on the other hand, such as soot and black carbon, is always visible.

Air pollution is caused by a variety of sources including but not limited to transportation, factory emissions, biomass combustion, and agricultural production

1

. The air pollution emitted from point sources is somewhat easy to quantify. However, the cost of air pollution is much more challenging to quantify because each product and material has a different impact embedded within it. When air pollutants are released into the atmosphere, they have adverse effects on humans and the environment. A notable feature of air pollution is that the effects are compounding, indicating that it can trigger a chain reaction of other environmental effects.

Some examples of Effect → Chain Reaction → Compounded Effect are:

Health problems to human beings and other living beings: respiratory problems, poisoning blood stream due to inhalation of noxious gases, extinction of species \rightarrow accelerated requirement of manufacturing of pharmaceuticals & medical care which requires more energy \rightarrow more energy required is obtained by burning more fuels \rightarrow more emissions into the atmosphere

Ocean acidification → aquatic and marine life dies faster, rocks in oceans erode faster → creates imbalance in the ocean composition which reduces ocean capacity to absorb pollutants from the atmosphere → more pollutants remain in the atmosphere

Greenhouse effect → global mean temperatures rise which causes irregular and unpredictable weather patterns → Increased devastation from as wildfires for weeks, natural calamities and disasters which required emergency services → increased uncontrolled emission in the atmosphere

Combustion of fossil fuels, like coal and oil for electricity and road transport, producing air pollutants like nitrogen and suite

Emissions from industries and fectories, releasing large amount

conpounds into the air

Air pollution causes

Air pollution is caused by the presence in the atmosphere of toxic substances, mainly produced by human activities, even though sometimes it can result from natural phenomena such as volcanic eruptions, dust storms and wildfires, also depleting the air quality.

Anthropogenic air pollution sources are:

1.

Combustion of fossil fuels, like coal and oil for electricity and road transport, producing air pollutants like nitrogen and sulfur dioxide

2.

Emissions from industries and factories, releasing large amount of carbon monoxide, hydrocarbon, chemicals and organic compounds into the air

3.

Agricultural activities, due to the use of pesticides, insecticides, and fertilizers that emit harmful chemicals

4.

Waste production, mostly because of methane generation in landfills

Carbon Moneyude - ATSDR Texto Substances Fortal

ronmentally-based criteria (science-based

Types of Air pollution

The EPA has identified six pollutants as "criteria" air pollutants because it regulates them by developing human health-based and/or environmentally-based criteria (science-based guidelines) for setting permissible levels. These six pollutants are carbon monoxide, lead, nitrogen oxides, ground-level ozone, particle pollution (often referred to as particulate matter), and sulfur oxides.

Carbon Monoxide

Carbon Monoxide - ATSDR Toxic Substances Portal

Carbon Monoxide – EPA Websiteexternal icon

Interaction Profile – Carbon Monoxide, Formaldehyde, Methylene Chloride, Nitrogen Dioxide, Tetrachloroethylene

Lead

Lead - ATSDR Toxic Substances Portal

Lead in Air – EPA Websiteexternal icon

Interaction Profile – Chlorpyrifos, Lead, Mercury, and Methylmercury

Nitrogen Oxides

Nitrogen Oxides – ATSDR Toxic Substances Portal

Nitrogen Dioxide – EPA Websiteexternal icon

Ozone

Air Quality – Environmental Public Health Tracking

Ground Level Ozone – EPA Websiteexternal icon

Particulate Matter

Air Quality – Environmental Public Health Tracking

Particulate Matter (PM) – EPA Websiteexternal icon

Podcast – What is Modeled Air Data?

Sulfur Dioxide

Sulfur Dioxide – ATSDR Toxic Substances Portal
Sulfur Dioxide – EPA Websiteexternal icon

Other Air Pollutants

Acrolein

Acrolein – ATSDR Toxic Substances Portal

Asbestos

Asbestos – ATSDR Website

Benzene

Benzene - ATSDR Toxic Substances Portal

Carbon Disulfide

Carbon Disulfide - ATSDR Toxic Substances Portal

Creosote

Creosote - ATSDR Toxic Substances Portal

Fuel oils/Kerosene

Fuel Oils / Kerosene – ATSDR Toxic Substances Portal Polycyclic Aromatic Hydrocarbons (PAHs)

Polycyclic Aromatic Hydrocarbons (PAHs) – ATSDR Toxic Substances Portal

Polycyclic Aromatic Hydrocarbons (PAHs) – ATSDR Case Study in Environmental Medicine

Synthetic Vitreous Fibers

Synthetic Vitreous Fibers – ATSDR Toxic Substances Portal Total Petroleum Hydrocarbons

Total Petroleum Hydrocarbons (TPH) – ATSDR Toxic Substances Porta

1. Using public transports

Using public transport is a sure short way of contributing to less air pollution as it provides with less gas and energy, even carpools contribute to it. In addition to less release of fuels and gas, using a public transport can also help in saving money.

2. Turn off the lights when not in use

The energy that the lights take also contribute to air pollution, thus less consumption of electricity can save energy. Use energy saving fluorescent lights to help the environment.

3. Recycle and Reuse

The concept of recycle and reuse is not just conserve resources and use them judicially but also is helpful for air pollution as it helps in reducing pollution emissions. The recycled products also take less power to make other products.



4. No to plastic bags

The use of plastic products could be very harmful to the environment as they take a very long time to decompose, due to their material made up of oil. The use of paper bags instead is a better alternative as they decompose easily and are recyclable.

5. Reduction of forest fires and smoking

The collecting of garbage and getting it on fire in dry seasons or dry leaves catching fires is a huge factor for causing air pollution, moreover smoking also causes air pollution and causes the air quality to worsen along with obviously damaging one's health.

6. Use of fans instead of Air Conditioner

The usage of AC's takes a lot of energy and emits a lot of heat which is bad for the environment. AC's also take a lot of power and energy to work as compared to fans.

Fig. 17. (See Fig.) and see The Factoring Control (See

7. Use filters for chimneys

The gas that is emitted from fireplaces in homes and factories are extremely dangerous for air pollution and harms the air quality severely. The use of filters should be used at least if the consumption couldn't be lessened, this will help to reduce the effect of harmful gases absorbing in the air.

8. Avoid usage of crackers

The use of crackers during festivals and weddings is sadly one of the biggest contributors to air pollution, leading to a layer of smog which is extremely harmful for health. So, practice of no crackers should be implemented.

9. Avoid using of products with chemicals

Products that use the chemicals in their usage or smell strongly, like paints or perfumes should be used less or outside the house. There can also be an alternative to use products with low chemical content and organic properties.

10. Implement Afforestation

Last but not the least, plant and grow as many trees as possible. The practice of planting trees provides a lot of benefits to the environment and helps with the release of oxygen.

CONCLUSION

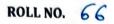
While the effects of air pollution on materials, vegetation, and animals can be measured, health effects on humans can only be estimated from epidemiological evidence. Most of the evidence comes from occupational exposure to much higher concentrations of pollutants than the general public is exposed to. Moreover, the health effects of smoking and other lifestyle characteristics and exposures confound the observations of air pollutant effects. Ethical considerations preclude deliberate exposure of human subjects to concentrations of pollutants that might produce adverse effects, so evidence from sources other than epidemiology is virtually impossible to obtain. All of the evidence we have suggests that air pollutants threaten human health and well-being to an extent that control of these pollutants is necessary.

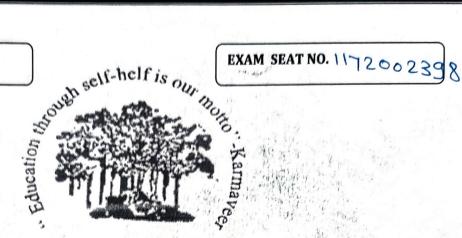
Air pollution is a mixture of solid particles and gases in the air. Car emissions, chemicals from factories, dust, pollen and mold spores may be suspended as particles. Ozone, a gas, is a major part of air pollution in cities. When ozone forms air pollution, it's also called smog.

Some air pollutants are poisonous. Inhaling them can increase the chance you'll have health problems. People with heart or lung disease, older adults and children are at greater risk from air pollution. Air pollution isn't just outside - the air inside buildings can also be polluted and affect your health.

Reference

The presence in the air of any air pollutant that reduces air quality enough to threaten the health and welfare or people, plants, and animals, to adversely affect materials and structures, and/or to interfere with the enjoyment of life and property. Although there are a number of important natural sources of air pollution (including forest fires and volcanic eruptions), the term is usually applied to substances released into the atmosphere as a result of human activities, which can be either deliberate (such as the continual release of gases from factory chimneys) or accidental (such as the release of material from the damaged Chernobyl nuclear power station, and the Bhopal explosion).





Rayat Shikshan Sanstha's

DADA PATIL MAHAVIDYALAYA, KARJAT

DIST.AHMEDNAGAR

PROJECT REPORT

ON

Global Warmir

SUBMITTED BY

NAME: Cawali Sonali Sunil

UNDER THE GUIDANCE OF

Mr. N. K. pandit. Mr. A. R. Pardeshi

SUBMITTED TO DEPARTMENT OF ENVIRONMENT STUDIES

ACADEMIC YEAR (2021-2022)

Rayat Shikshan Sanstha's

DADA PATIL MAHAVIDYALAYA, KARJAT



DEPARTMENT OF ENVIRONMENT STUDIES

CERTIFICATE

Date: 24/05/22

This is to certify that,

Mr./Miss. Cawali Sonali Sunil

Has satisfactorily carried out the project work, prescribed by the Savitribai Phule Pune University for the S.Y.B.Sc. / S.Y.B.Sc. (Comp.Sci.) course in Environment Studies. This project work represents his/her bonafide work during the academic year 2021-2022.

Teacher In-charge

Department of Environmental Awareness

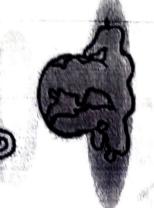
ould NOT be confused with climate Difference change!

Earth's average surface surfac

is a broader term that refers to long-term changes in average temperature and precipitation.

SHOT ON REDMIKZO





0.8 C (1.4 F), with about two thirds of the increase occurring since 1980. Warming of the climate system is unequivocal, and scientists are more than 90% certain that most of it is caused by increasing concentrations of Global warming refers to the rising average temperature of Earth's atmosphere and oceans, which started to increase in the late 19th century and is projected to keep going up. Since the early greenhouse gases produced by human activities such as deforestation and burning fossil fuels. These findings are recognized by the national science academies of all the major industrialized nations. 20th century, Earth's average surface temperature has increased by about

An increase in global temperature will cause sea levels to rise and will change the amount and pattern of precipitation, and a probable expansion of subtropical deserts. Warming is expected to be strongest in the Arctic and would be associated with continuing retreat of glaciers, permafrost and events including heat waves, droughts and heavy rainfall, species extinctions due to shifting sea ice. Other likely effects of the warming include more frequent occurrence of extreme-weather temperature regimes, and changes in crop vields. Fossil fuels (coal, oil, natural gas)

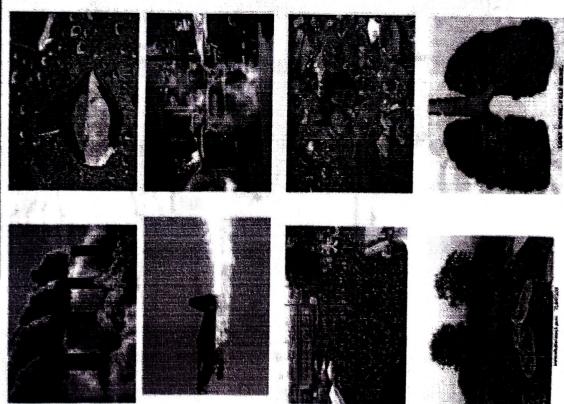
CAUSES OF GLOBAL WARMING

POLLUTION FROM COAL, NATURAL GAS, AND OIL

CO, FROM AIRPLANES & VEHICLES

POPULATION INCREASE





066034

outer space, allowing the most escapes to Earth to cool...

trapped by gases in the air esp. CO₂), thus reducing arm. but some IR is

retained, causing the

Earth's surface to

heat up.

atmosphere and

the amount of heat

of CO, increases

... ... Increasing levels

Sunlight -- Sunlight

is given off by

the atmosphere and warms the earth.

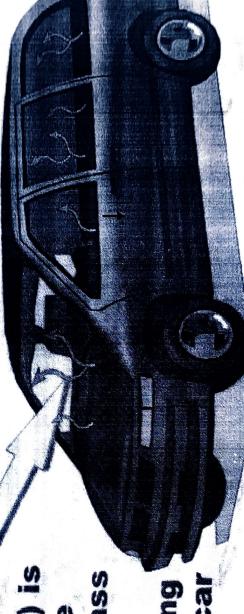


passes through the The Sun's energy car's windshield.

This energy (heat) is car and cannot pass the inside of the car windshield, causing trapped inside the back through the to warm up.







Global warming causes-



Melting of glaciers



Polar Bear Extinction



Melting Polar ice caps

Increased probability and intensity of droughts and

heat waves



Warmer waters and more hurricanes



Increased Temperature

Animals like these







Global warming causes-

Temperatures

- Between the years 1860-1900 average temperatures have increased by 0.75 degrees Celsius.
- Over the past 100 years global temperatures have risen by 1.3 degrees.

Weather in recent winters

Recent winter was the warmest winter ever recorded in the history of the planet Earth).

10 out of the past 14 years are the warmest on record. Glacier and Ice Cap Melting

- Evidence of global warming is very apparent in the recent melting of ice sheets.
- Two places where melting has become extremely visible are Antarctica and Greenland.
- One problem with this is that much less heat is absorbed by snow than by water, thus worsening the effect as the ice retreats.
- One area of particular concern is the Himalayans. 1/3 of the worlds fresh drinking water comes from the run off from this glacier system.
- A direct consequence from our polluting actions will be the disappearance of these vital glaciers.

Sea level rising

- Possibly the biggest threat brought by global warming is rapid sea level changes.
- Two years ago the entire Larsen B ice shelf broke away into pieces in less than a month. Scientists thought it would be at least a decade before this shelf melted, even with global
- Both Greenland and Western Antarctica are depleting at shocking rates.
- Not all of global Warming's effects are unprecedented

Major CONSEQUENCE



At some places, it



At others.....



SOMEWHERE it's



WHEREAS At others tooo.....





GLOBAL WARMING Its all because of

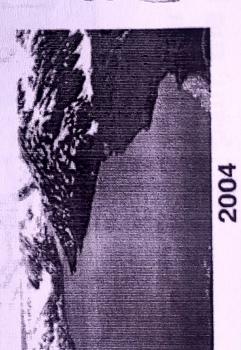
Sare PROOF! CAUSED BY

Colorado River SO Here's the PROOF

Portage Glacie



1914





June 2002

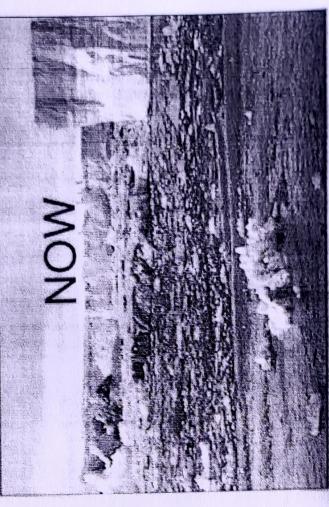


Dec 2003

ANTARCTICA - losing ice faster..!!!!!



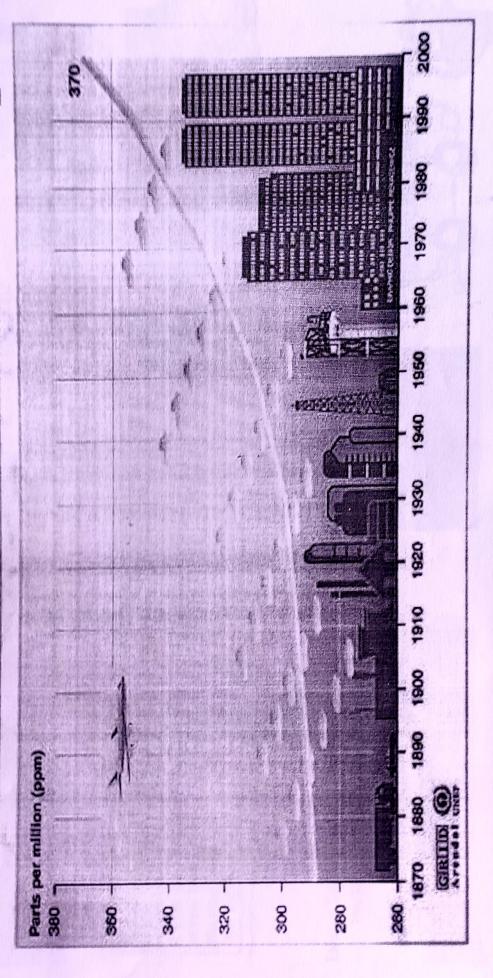




"There will be no polar ice by 2060...Somewhere along that path, the polar bear drops out."

When did global warming start?

Global Atmospheric Concentration of CO2





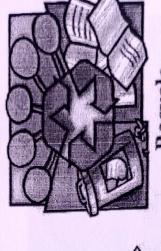


Turn off your computer or the TV when you're not using it.









Recycle



Energy Saving

f you are the last to

eave the room, please turn off Be Bulb Smart-Use CFLs

Use a bicycle or bus

Drive LESS, drive SMART

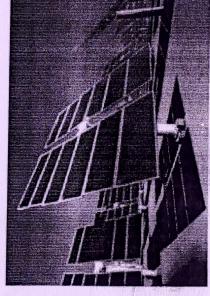


turning up the air conditioning.

Dress lightly when it's hot instead of

AND HAVE FAITH ON

Wind Power



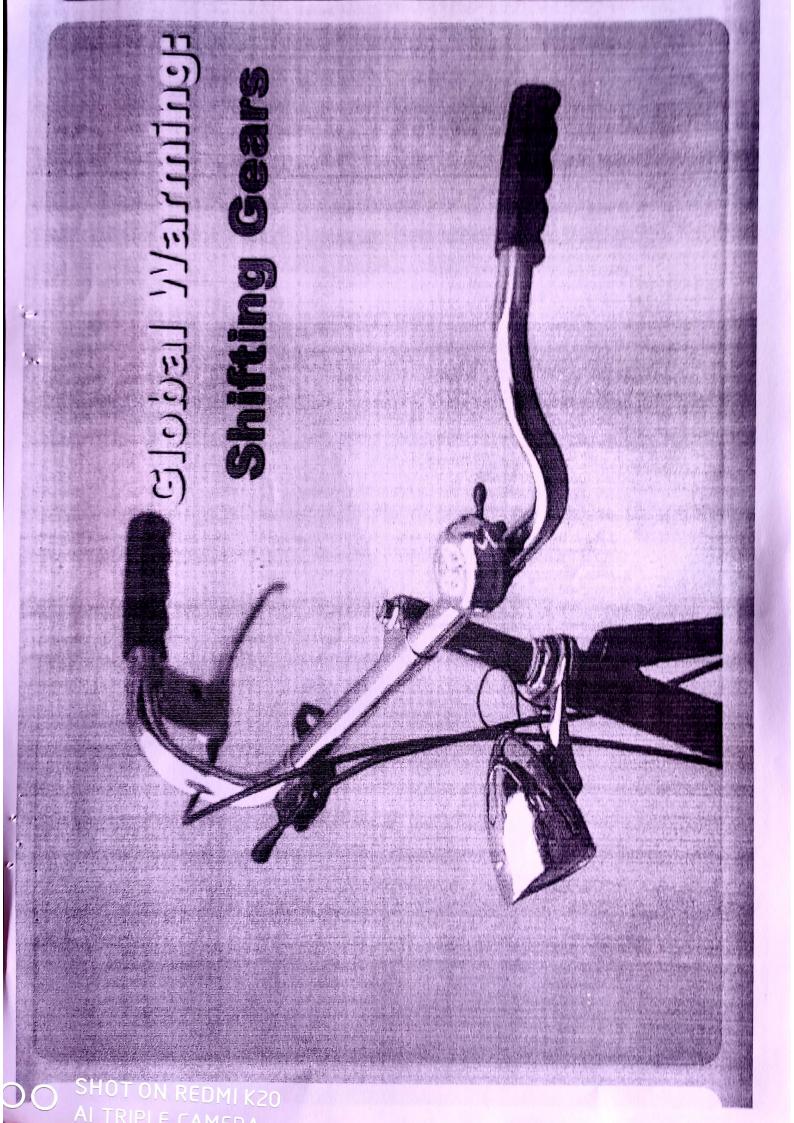


Hey...!!! Its working

NI TRIPLE CAMERA

Filel officient cars

JA a



Goal: Re Luctions in CO₂ Per Year 2007

N

Billions of Metric Tons Carbon

1970

3

9

After Pacala and Socolow, 2004; ARI CarBen3 Spreadsheet



efectualty
efficiently
Use electricity
efficiently
Vehicle
Vehicle
Fower
Power
Blofuels
Carbon capture
and storage

Reductions in CO₂

2007

0.5

e 휴

929

Billions of Metric Tons Carbon

ņ

S.

RESPONSE TO GLOBAL WARMING

MITIGATION

In order to limit warming to within the lower range described in the IPCC's."Summary Report for Policymakers" it scenarios described in the full report. This will become more and more difficult with each year of increasing volumes will be necessary to adopt policies that will limit greenhouse gas emissions to one of several significantly different concentration of greenhouse gases. Energy-related carbon-dioxide (CO2) emissions in 2010 were the highest in of emissions and even more drastic measures will be required in later years to stabilize a desired atmospheric history, breaking the prior record set in 2008.

Since even in the most optimistic scenario, tossil fuels are going to be used for years to come, mitigation may also involve carbon capture and storage, a process that traps CO, produced by factories and gas or coal power stations and then stores it, usually underground

ADAPTATION

Other policy responses include adaptation to climate change. Adaptation to climate change may be planned, e.g., by local or national government, or spontaneous, i.e., done privately without government intervention. The ability to vulnerable to climate change. Planned adaptation is already occurring on a limited basis. The barriers, limits, and adapt is closely linked to social and economic development. Even societies with high capacities to adapt are still costs of future adaptation are not fully understood.

REENGENEERING

CO2, and techniques for reducing the amount of sunlight absorbed by the Earth's atmospheric system, [132] The IPCC's A body of the scientific literature has developed which considers alternative reengineering techniques for climate overall conclusion was that geoengineering options remained "largely speculative and unproven, (...) with the risk of change mitigation. In the IPCC's Fourth Assessment Report (published in 2007) Working Group III (WG3) assessed unknown side-effects. "Uss! In the IPCC's! judgement, reliable cost estimates for geoengineering options had not yet some "apparently promising" geoengineering techniques, including ocean tertilization, capturing and sequestering

As most geoengineering techniques would affect the entire globe, deployment would likely require global public acceptance and an adequate global legal and regulatory framework, as well as significant further scientific research.

Interesting evidence of global Warming

significantly earlier in the In far northern Canada the Native Inuit have noticed the sun rise year (2 months)



distorts the sun's

light, literally

the snow. This

causing it to rise

earlier.

layer of air above

warming of the

caused by the

This has been

This phenomena is an possible implications example of how little we know about the of global warming



CONCLUSION

warming in a 1979 paper called the Carney Report, it said: "if carbon dioxide recognition that the climate was warming; previously the phrasing used by The term global warming was probably first used in its modern sense direction it was going. The National Academy of Sciences first used global global warming, while referring to other changes caused by increased CO2 and no reason to believe that these changes will be negligible." The report continues to increase no reason to doubt that climate changes will result made a distinction between referring to surface temperature changes as Science called "Are we on the brink of a pronounced global warming?". scientists was "inadvertent climate modification," because while it was on 8 August 1975 in a science paper by Wally Broacher in the journal recognized humans could change the climate, no one was sure which Broacher's choice of words was new and represented a significant as climate change.

He said: "global warming has reached a level such that we can ascribe with climate scientist James Hansen used the term in a testimony to Congress. Global warming became more widely popular after 1988 when NASA a high degree of confidence a cause and effect.