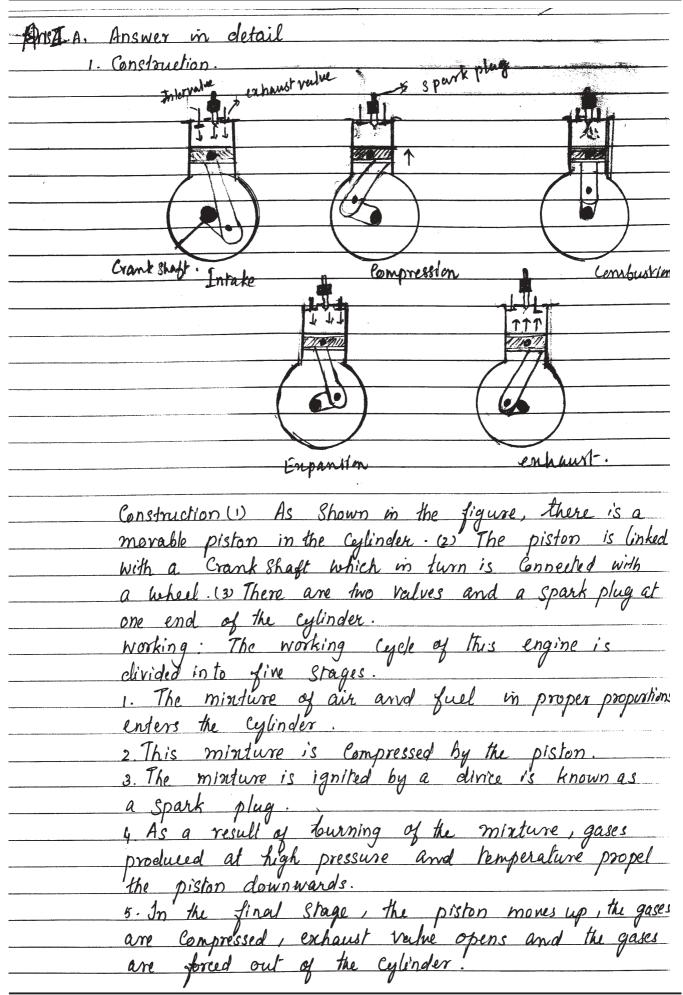
a carriera	SCIENCE -V	MARK	15:100
		TIME	3 km.
OIA.	Answer in detail any two of the following	en e	6
1.	Describe the Construction and working of	imple	
	internal Combustion heat engine		
	Explain the electro magnetic Classification	d	
	spectrum of electro magnetic waves		1
3.	Spectrum of electro magnetic waves.  Name Various methods of preservation of for discuss any two of them.	od a	ma
	0	18	
B.	Answer the following any fine to the point		(ii)
J.	How is Use of Solar energy Superior to the energies.	t of	other
	energies.		
2	Mention the Charecteristics of Gueket fuel. State the limitations of Steam engine		
3	shope the remitations of steam engine		
4.	State the Ileasons for energy Chisis		
5	Rapidem the Importance of Wing energy.	4.	
6.	green reary vegetables are essential in ou	Я	
	Explain the importance of wind energy.  Green leafy vegetables are essential in our daily diet. Explain.		
	Answer each of the following in one gentence		¥
1.	what is the materialistic form of Solar e	nergy	2
V.	what is the Calonific value of butane as for	iel.	
3.	which physical quantity is measured by this watt hour?	unit	of
4.	How much is the deposit of Coal in the ea	rth.	

Qa A. Answer in detail any two of the following @
1. Explain the points for planning for more crop production and explain any two of them. 2 State the causes of Goitre, its Symptoms and treatment.
3. Give the information for the role of different organisms in Spreading diseases
B. Answer the following any five to the point (10)
1. What is a balanced diet. State its necessity?  2. What pre-harvest measures should be taken to improve the production of crops.
3 why is the modern agriculture known as agriculture industry.
excess of Villamin A.
s. Describe the ill effects of tobacco.  A. State hazardous effects of wadertion one haman harman
6. State the names of any four hybrid varieties of
c. Answer each of the following in one sentence (4)
1. Which mineral is important for Clotting of blood coming out of a wound?
2. How many persent-food gets spoiled because cy enzymie reactions.
3. What is the hybrid Variety of the paddy Crop.  4. Which Organism Spreads Gunea Worm in human beings.

B3 A Answer in detail any two of the following. (6)
1. Explain coubon eyele in nature with diagram. 2. What are natural biotic and abiotic wealth-
2. what are natural biotic and abiotic wealth-
lois resources? Give the measures for its Conservation.
3. Give the preparation of ethanol, its two properties
and two uses.
B. Answer the following any five to the point. (10)
1. In ecosystem the energy flow is in one derection only. Explain.  2. What is bio geo chemical cycle?
2. What is bio are chemical casele?
The second secon
3. Give two points of différence: True solution
and Colloidal Solution.
4 what should be done to protect natural wealth?
5. State the Characteristics of potable water. 6. State the uses of calcium Hypochloride.
6. State the uses of calcium Hypo chloride.
C. Answer each of the following in one Sentence. 4)
1. Of which metal is the demolite one? 2. Write the molecular formula of Sodium Silicals.
2. Write the molecular formula of Sodium Silicale.
2 land a fear of the contract
4. What type of polymer is nylon?

B4 A: Answer in detail any two of the following 6
1. Describe preparation of methane gas in Lab. 2. Explain, with diagram, Froth floatation process. 3. Give the physical and Chemical proporties of
¿ Explain, with diagram. Froth floatation process.
2 Pine the physical and Chemical proporties of
Silicon.
Site with the same of the same
1.B. 1. Write a Shert note on Nylon. (6) 2. Define isomenism. State the isomers of butance
2 Define isomenism. Shale the isomers of butane
with formulal.
Jescribe the allotropes of phosphorous. 4. Englain what happens when iron reachs with
I Englain what happens when Iron reachs with
$\rho_{\text{con}}$ , 11 Ca
5. Explain the atomic arrangement of Sulphur
000 0100 1/0
Explain polymerisation with illustration.
t trained positive reserves
Answer each of the following in one Sentence (4)
1. Name the metal obtained from Sidente
2 which Compound of Sulphur is a Spelifie Solvent.
3 Melting points of which alkanes are high? 4. Name two natural fibres Centaining allubse.
4. Name Two Magusas gibles centraling allace.

Os A. Answer in detail any two of the following. (6)
1. Explain how a Star is formed from a protestar.  3. Explain the liquification method for purification of metal with figure  3. hehat is Super nova? Explain in detail the supernova explosions.
2. hehat is Super nova? Emplain in debail the Scipernova explosions.
B. Answer the following any five to the point (b)
1. huhat is thermosetting plastics? with give two enamples. 2. Write a Short note on moon 3. huhat is contributioned INGAT II Call I to a Today
3. hihat is contribution of INSAT-11 Salollite of India.
4. The rocket with Solid fuel cannot be used for
4. With Solid fuel  4. The rocket with Solid fuel cannot be used for  Imploration: Give reason.  5. What is a black hole & Explain how it is formed.  6. What are meteors and meteorites.
C) Answer each of the following in one sentence. (4)
1. hehat is pulsar.
1. What is pulsar. 2. A netron star what is the age of oldest Rock on the moon?
3. What type of fuel is used in a booster
4. One light year equals to homany metres.



	Due to the above processes the wheel linked
	Due to the above processes the wheel linked with the piston by a Crankshaft votales and mechanical work is obtained
	mechanical work is obtained
	Bu Grapeating the ennewment (all Live Chars)
	By be peating the enperiment (all fine stages) Continuing work can be obtained from the engine.
	Significant of the contract of
Ans. 2)	
NIV.	102 104 10 108 100 102 104 1016 108 1020 1022 Fraquency in Hertz
	Micro waves visible byth x-rays.
	Radio waves. Infrared ultre violet gamma rays.
ipai+u.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	$\frac{1}{10^6} \frac{1}{10^4} \frac{1}{10^2} \frac{1}{10^4} \frac{1}{10^6} \frac{1}{10^6} \frac{1}{10^{10}} \frac{1}{10^{12}} \frac{1}{10^{-14}}$
	Electro magnetic Spectrum
	Employation: - 1) The sun is the main source of
	energy among all the layrese full and dies the forman
	Enplanation: - 1) The Sun is the main Source of energy among all the Sources Surrounding the human
	bleing.
	reaches the earth in the form of vadiations. This radiations are mainly electromagnetic waves.  3. These electromagnetic waves are of
	realistics (Coo beside of Vadiations 1 M3
	That was the mainly ejection magnetic waves.
	3. These effects may here waves wife of
	different wellergins. Ins wavelength is measured in
	Angstrom (A°) units · $1A^\circ = 10^{-10}$ metre
	4. Electro magnetie wavelengths are
	Classified according to their wavelengths. This is
	known as Spectrum.
	The wavelengths of wave between 4000 A
	and 8000 A Constitute what is known as Visible light.
	The waves lying between wo A and your A are known
	as celora violet waves. This waves are harmful to
	loving organisms. Most of these waves are absorbed
	in the ozone (03) layer at the top of the earth's
,	armosphere- the woves Lying between soon A and
	So ow A are known as infrared rays and they
,	provide aus with heat.
	·

Ans 3. Methods of preserving good
1. Dis infection. 1) Cooling and represention 3) Drying
4. Use of Sugar and Sall 5) Use of Chemicals
6. Inadiation of food.
1. Dissingletion: This method is used to preserve fruits
and for packing jams, pickles, tomato souce ete
The Containers are distributed at the time of packing
The place of work is kept very clean. Clean Clothe
k used for Wiping jaks, tins etc. Katables are
filled in bottles, jare and tins are sealed so it
does not get spoiled.
2 Cooling and refrigeration: - The growth of disease
Causing germs decreases and the action of enzymes
retards at low remperature.
3. Drying: - Removal of water from food Without Spoiling
its paste or reducing its nutritive value is known
as driging or de hydration.
4. Use of Salt and Sugar: - Amla, mangols and
lemon are kept immersed in Salt water. Mango jam
is preserved by thick syrup of Sugar. As the
Concentration of Salt Solution en Sugar Symp is More
fungus er becetena lan not use the eatable.
5. Use of other Chemicals: - If Substances are kept in
an acidic medium, germs do not survive in it.
Benevic aud and potassium meta bisulphate are
Well fer this
6. Irradiation: - Gamma rays are Used for Storage
of potatoes and ordens. By this method they can be
6. Irradiation: - Gamma rays are used for Storage of potatoes and onlons. By this method they can be preserved for a long time.
Q1. B. Answer the following
Source of energy like petroleum, natural gas etc.
Source of energy like personeum, natural gas ere
More over Cor produced by their Combustion pollutes the atmosphere. This pollution has many adverse effects
agmosphere ins pollution has many winerse effects
on the life.

- Solar energy is inexhaustible and available in
large quantity. It does not create any pollution.
- Solar energy can be converted into heat and
- electrical energy. Thus it is superior to other form
energy.
Ans 2. Rocket fuel: - Very high quality fuel is necessary
for rockets. Its chareetenistics are as follows  1. The fuel must be Completely converted into gasous from
1. The fuel must be Completely converted into gaseous from
- THE TAPE of CINCOUSTON MUST BE VERY GYEBU.
3. No residue must remain at the end of Combustion
Ans. Rimitations of Steam engine.
Large Size of boilers are used in Straim engine so it is not used for running small engines or
So it is not used for running small engines or
machines. Defective Construction of boilers can cause
accidents. Heat is washed on a large Scale and
So machanical energy is obtained on a very small
- Sig Scale
Ans 4. The following are the reasons for energy crisis
Electrical energy is being used Continuosly in cities
As well as in villages for lighting bulbs and lubelights.  There is a constant use of cleeticity in Commercial contres
There is a constant use of Cleetricity in Commercial contres
Morels, Shaps ele for lighting the bulbs and running fans
and Air anditioners. Petrol, diesal and other fuels are
Used Continuously in transportation. In rural areas,
mainly wood and dung are used as fuel. Because of
the large demand for fuel, more number of trees are
Cut than they are planted and this is how forests are
destroyed. Thus, wood as fuel, is a non renewable source of
energy. 34 More over, Conventional Sources of energy like
Coal, mineral oil, natural gas are limited. The
Continuous in crease in population is also the Course of the
energy crisis.

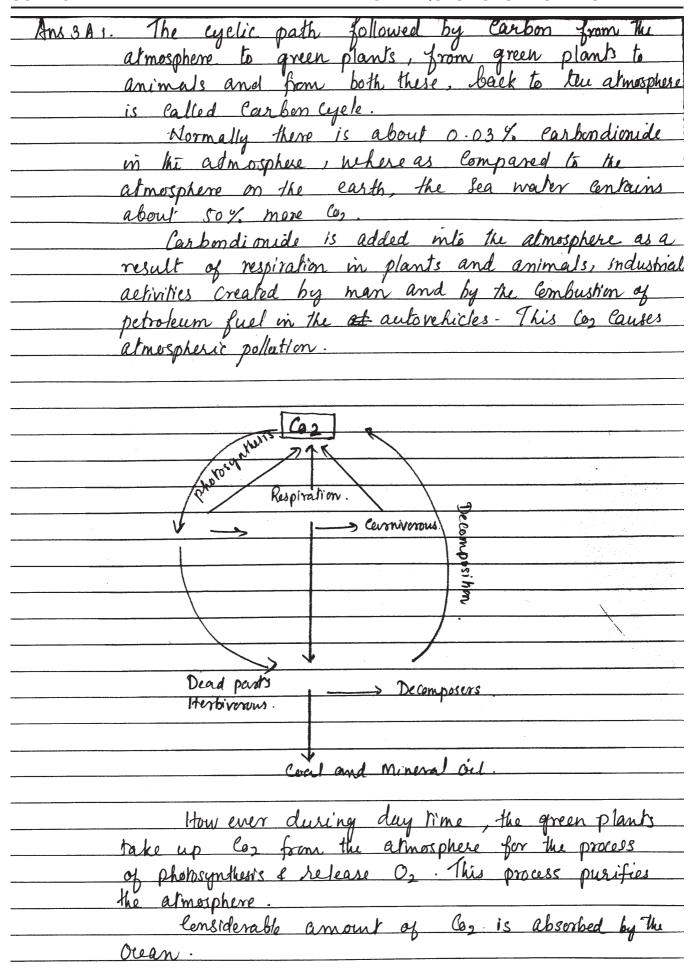
Aus Boats and Ships use Sails to utilize kinetic energy
of the wind. Transportation on Sea water is made possible
by boats and Ships : kinetic energy of the wind is
used to rotate the blades of the wind mill and this in
turn, can run the water pump sets and the flour mills
Electricity is generaled with the help of wind mills.
Ans. Minerals and viramines are essential in our daily
diet. Minerals Such as Calcium, iron, phosphorus,
magnesium, Sulphur and Sodium and Vitamins A, B
Complen and E are available from green leafy
vegetables. It also contain carbohydrates as well as
proteins. Thus green leafy vegetables not only prondes
us nutrients but also fibres and Cellulose, which
help in proper digestion of food and in the process
of egestion of faeces.
c. Answer the following in one sentence.
Makamalistic form of lalar emergy is Biomass
1. Materialistic form of Solar energy is Biomass 2. Calonific Value of butane as fuel is 50 kJ/gm 3. Energy is measured by unit of 1 kWH. 4. The deposit of Coal in the earth is 112 billion ton.
2 Energy is measured by unit of IKWH.
1. The deposit of Coal in the easth is 112 billion ton.
- M. The agristi of the the time
· · · · · · · · · · · · · · · · · · ·

62. A.
my 1. Fertilizers and natural resources are less
my 1. Fertilizers and natural resources are less available in india. So it is inevitable to develop
new varieties of crops and vegetables giving more
New varieties of crops: - There are some varieties
of Crops which do not grow in India but grow in
other countries. We should adopt some Mechniques to
grow some of these necessary for us and Sculable
to the Climate of India.
Vernalisation: - In this method the Seeds are Soaked
in wester and kept in refrigerator before germination
or chemical processes are done on the seeds! Such
Seeds germineite quickly.
Hybrid Varieties of Crops: - It is not possible - that
Some particular régétables possesses all desirable
qualities. But by perferming hybridisation between two
or more types of Vegetables. Seeds can be produced of
new quality and from them better quality of
regetable can be developed.
Improvement in harvectation: New techniques should
be adopted for howestation after the crop is
m agriculture. If grains are washed unnu
machines, man power Should be adopted. Vations
Harvestation must be done taking the proper time
inte account.
Ans 2. Conditions responsible for Gortre are 1) Goitre is
Caused duly desticiency of Toding - 2) The desticiency
of Todene affects the thyroid gland in the throat.
Thyroid gland Secrete the hormone Called Thyronin
Of Todene affects the thyroid gland in the throat.  Thyroid gland Secrete the hormone Called thyroxin  becomes less due to the defficiency of indine
In some regions of Himalayan terrain The amount
of Iodine is less in land and water.

1 1 1 1 h
Symptoms of Goetre
1. The thursd gland in the throat Ruells.
1. The thyroid gland in the throat Swells.  2. A large and ugly tumor develops on the neek. So the physical and mental growth of a person is
the physical and mental growth of a person is
inhibited.
Measures to prevent Goitre
1- Todised Salt Should be taken in food.
1- Todised Salt Should be taken in food. 2 Fish and other Todine rich Sea food Should be taken.
Ans. 3. The deseases of digestive track are spread by
round Worm, tape worm and hook worm. 27 Malani
is caused by a protozoan Called plasmodium and
is sprend by the bite of anopheles mosquito.
3) The filamal worms of elephantatis enter the
body through the bite of Culex mosquito and cause elephantatis 4) The antropod cyclops is Seen in
the Stagnant waters of Wells, ponds and Step Wells.
It enters the human body through water. Guinea
Worm and The mentioned Werm's are transmitted
into human body by eyelops 5) Tetamus is caused
had talkana a Viloriak Yilki Mana IMA IMA Olorida BU Taktila OY MOXU
oplaque is spread by flee and rate . 7) Rabbis is
oplague is spread by flee and rate · 7) Rabbis is Coursed by the leite of rabid dog.
AnszB. Answer the following to the point.
The diet from which we get all the Constituents of
food in proportion and proper amount of Calonies for our daily requirement is known as balanced
diet.
Need for balanced diet.
1) The Crogonisms get energy . 2) The health of the
body is maintained 3) Balanced diet develops the
Immunity of the body is growth and development
of the body takes place property. It is necessary
loody is maintained 3) Balanced diet develops the immunity of the body is growth and development of the body takes place properly. It is necessary to meet with the wear and tour of the body and to

Construct new cells. It maintains the activity and effeciency of the body.
what if the roomy.
Ans. Selection of proper crop. Procuring Seeds of
Mainlaining the fertility of Soil through proper
Centitivation. Do a dino proper time of hung. Adaphine
proper method of Sowing - Sufficient irrigation at- proper time. Control of weeds and pests
proper time: congres of means and pesis
Ons 3 Many Changes have Come in the Contemporary
agricultural practices. Modern agriculture does not depend
developed to manufacture Various appliences in the
field of agriculture. Industries have developed
for production of pesticides, insecticides and Chemical
fertilisers. Factories for production of spray pumps
for medicines, water pumps, trashers, tractors etc
have started. Electric power stations are developed to
Supply necessary energy to factories.
Ans. 4. Excess of Vitamin A results in rough and leathery
Skin, increased porosily of bones and makes them brittle.
them brittle.
Mrs. 5. Tobacco Contains a Stimulating alkaloid-nicotine
which is poisonous Nicotine Stimulates the nerves and
the blood pressure increases for a shest time. The
heart enperiences pressure. Addiction to tobacco
m' the leng run causes weakening of nerve fibres,
Constipation, indigestion the and it also may cause
Cancer of mouth or lengs.
Ans. 6. The names of hubrid varieties of Come and
1. Santa lug trudis 3) Tersey 3) Friessan Rahimel
Ans. 6. The names of hybrid varieties of Cows are  1. Santa Gertrucks, 2) Jersey 3) Friesian Sahiwal  and 4- Brown Swiss.

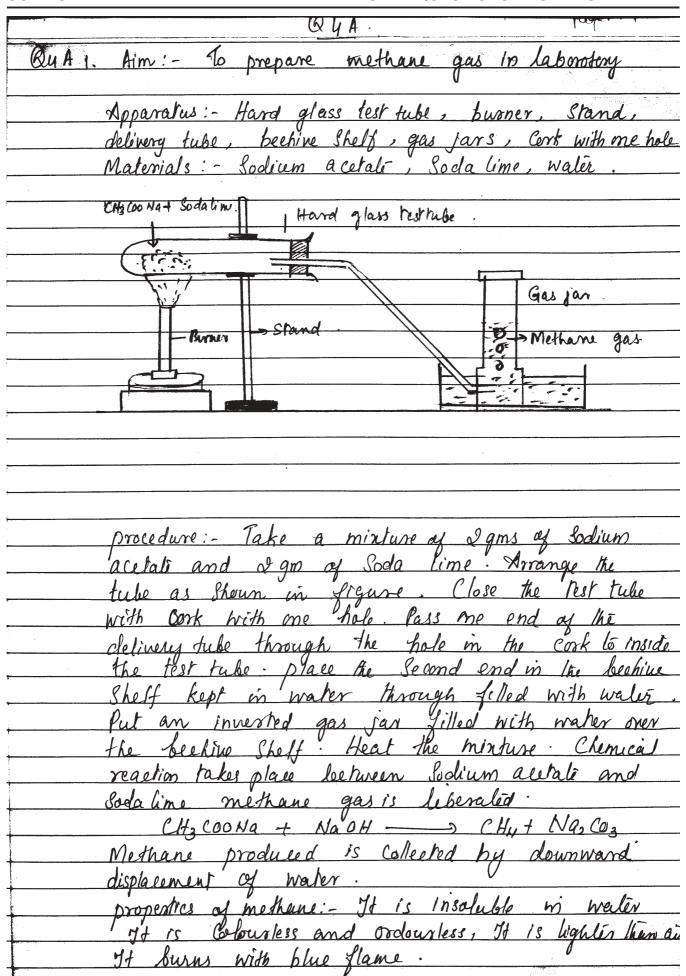
	3.	Comi'	hun	f	s a	gers	Sprid	poile a	t b	ly o	se.	pag	enz Idy h	ymi Cro	e rea	retim
	4.	Cyc	10 ps		Spr	ena.	3	gum	<u> </u>	VV ()	my_	VV)	/ [1			
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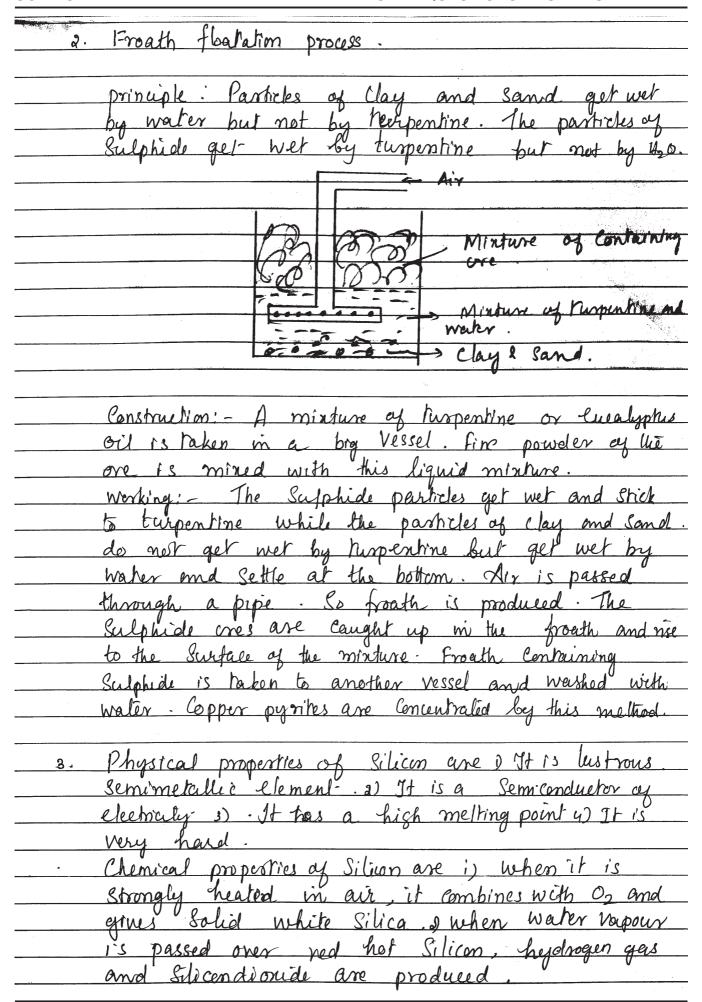


Ains.2. Brotic resources are forests, wildlife birds, miero organisms etc.
birds, miero organisms etc.
Abiotic resources are Minerals, air, water
mineral oil etc.
Measures for Conservation of biotic resources are
1. Indiscriminate destruction of ferest must be stopped
2 Social torestation program thould be implemented
and Serious attemps should be made to make programmes like Vana Mahorsava' and Tree plantations successful to - Metals like fe,/Al or plastic should be
programmes like Vana Mahotsava and Tree plantation
Successful to - Metals like Fe,/Al or plastic should be
must be developed. The Silviculture method for
must be developed. The Silviculture method for
rapid growth and development of trues adopted by
department of foresty should be firmly implemented.
Measures for Conservation of abistic wealth.
v Mineral oil, gas and coal should be used
economically and with discretion. Instead of burns
the natural gas obtained from oil wells should be
ne introduced in the latter and thought be consessed
Arrangement should be made to bury the waste
Arrangement should be made to bury the waste from industries ; nstroad of dumping it in the rivers.
Ans. 3. It is prepared on a large Scale by fermentation
It is also prepared by the addition reaction of
I Have a de la haring to want all a desire and
ethere and water in presence of phospheric acid
Co Hy+ Ho - CH5OH.
properties.
1. It burns in air with blue flame producing co.  L2 H5 OH + 30, -> 2 Co2 + 3 H2 O.
s. On reaction with 0, or potassium dichomate
it produces ethanore acid
C2 H5 OH + O2 -> C15 COO H + 150,

Uses.
It is used as a huel.
useful as a solvent.
It is used as a fuel.  Useful as a Solvent.  It is used in alcoholic drinks like beer,
wine, whisky etc
To Clean wounds and to Sterilise injection Eyringe
CONO.
Ans B. I. In an ecosystem two important processes, Viz
flow of energy and Cycle of matter are linked
with each other. The energy flow occurs in one
direction only, while -the flow of minerals occurse through Cyclic pathways. Sun is the main Source
through Cyclic pathways. Sun is the main Source
of energy. The Joyan energy Inters the closysten
Through green plants Among the living organism only green plants Contain Chlorophyll. With this
only green plants Contain Chlorophyll. With this
the green plants transferm the light energy into Chemical potential energy. The energy is Stored
Chemical potential energy. The energy is Stored
as organic food Substances, which in him, is first obtained by herbiverous animals. From latter
first obtained by herbiverous animals. From latter
the energy reaches the Carniverous predators by first, Second, and there orders respectively. Thus the flow of energy flows up to the persons.  predators.
1/13t, second, and third orders respectively: Thus
The flow of energy flows up to the perhang
2. The cyclic flow of elements like curbon,
nitrogen, onygen ete between an deosystem and
is physical environment is called biogeo chamical
and through them in the eeosystem.
ma nonugre man in me cessystem.
3. Prus Salution Colloider Solution.
1. In true Salution 1. In Colloidal Salution, the
the digmeter of Solute diameter of Solute particles is particles is up to 10° cm. from 10° 16 10° cm.
2. In true Salution, the In Colloidal Solutions, the Solute
Solute is in the form of moderales particles are despensed in any

4. Controls must be exercised on the use of natural
resources. Intensive and Sincere efforts Should
be undertaken for renewation of renewable resources.
Efforts must be made to increase natural resources.
The area of forests and the number of trees must
be increased through Van Mahoksava and tree
planting programmes. Forest area should be resemed
fer Conservation of wild life. Legel centrals over
the miscuse of natural resources.
the miscuse of natural resources.  5. Charecteristics of Potable water are 1) It Should be be hygienically harmless. I) It Should be
le hugie nicalles harmless. I) It Should be
odourless, Colourless and free from organic
Substances and micro organisms & It should be Soft
and Should not Centain more than 500 ppn of
total Saluble Substances 4 It Should Contain a proper
amount of iodine - It should not contain more than
0.6 to 0.8 ppm of flueride.
6. Calcium Hypothloride is a Strong bleaching
agent. So used for bleaching in laundries
It is used as a germiciale
Chloroform can be presaved from it.
In textile mills and in paper mills
Ans. [ 1. Calcium metal is the demolite one.
2. The molecular formula of Sodium Schieate is
Na <sub>2</sub> Si O <sub>3</sub>
3. The atoms of Carbon Can Combine with each
3. The atoms of Carbon Can Combine with each other and form Chains. This property is
Called Catenation.
-4. Nylon is polymide type polymer.





4. Silican reacts with HCL and liberalis
hydrogen ges.
5. When Silicon reacty with hot solution
of MaOH, Sodium Silicali and hydrogen
hydrogen eges.  5. When Silicon reacts with hot solution of MaOH, Sodium Silicoli and hydrogen gas are produced.
Ans 4 BD The fibres of mylon are man-made fibres.
They were the first arrificeal flores for
production of nylon, polymerisation rakes place
between two type of organic Compounds, one
having two amino groups (-NH2) and the other having Carbenylic groups (-COOH)
Other having Carbenylic groups (- COOH)
MH2N- □-NH2 + nH00e- □- COOH ->
H2N-(- 11- NHCO- 11-)n-COOH+n120.
Aus 2) The phenomenon in which organic Compounds
have the same molecular formulae but
different Struckural fermulae is known as isomenism
Butane has two isomers. Molecular formula of butane
is Cy 410 Dormal butone
2. 130 - butane
to a the allatoness of phasaloness are 11' Velland
phospherous, a) Red phospherous, 3) Black phospherous.
prespressur, or red prespressus; 3) is they prespressus;
Amongst thise Some Wallow Som is the most
Amengst these forms, Yellow form is the most reactive, while black is the least reactive A molecule of Yellow phospherous has four atoms. The engral Structure is tetrahodral.
A molecule of Yellow photopherous has love
atoms. The engeral Structure is tepa hodges!
It is kept lender wester. The Configuration
at ved phospherus is Complicated and it has not
get been Clear. The Configuration of black
phosphorus i's like a ret- Lormed of dillorethere were
The metal like Structure lustre and to
Some entent et anduets électricités.

Aus 4. Iron reacts with hot and lone. Hoson forming a minture of ferrous Sulphate and Son gas set.  free.  Fe + 2 Hoson Leat, Feson + 2 Hoo + Son
Fe + 2 Ho Soy Leat, Fe Soy + 2 H2O + SO2
light atoms of Sulphur in its Shable state has light atoms of Sulphur. In this molecule, each atom of Sulphur is joined to other two atoms by lo-valent bond. The angle fermed between two atoms by Coralent bond is lose. Due to this a wany shape of molecule results. This arrangement is known as \$8.
Ins 6. Many molecules of an un saturated Compound unite  16 form a long Chain Compound in polimerisation  Ethene forms a polymer known as polythene.  The clouble bond extended un saturated Compound  breaks and a Single bond lands—Carter Saturated  Compound is formed.
Br. C. 1. Tron is obtained from Sidenite.  2. Carbon di Sulphiele of Sulphur is a Specific Solvent  3. Melling point of decosane, Cos Hus is very high  melling point.  4. lotton and just are two natural fibres Containing  cellulose.

A Ans CA
Ans 5 A.
Ansi. If the Cloud of hydrogen gas in a galaxy
re dense and large, the gravitation force of attraction
Between molecules is very strong and the Cloud
Starts Contracting. On adequate contraction the Cloud
Contracts into a dense gas material known as probstan
At this Stage, the propostar does not glow as:
Sufficient energy is not emitted. The contraction aga
protostar can Continue for a million years.
Ster from a protestar.
The Contraction of a protestor can continue
for about 1 million years. During this the inner
temperatuse in creases from -173°C to 10°C. At this
Temperature Thermonuelear quesim Stevre. Four to
nuclei Contine and form a He nucleus. The mass
of He atom is Shightly less than that of for hydre atoms. The mass which disappears is converted
atoms. The mass which disappears is converted
into energy according to Einsteen's formula E= amk²
The proto star Continues to Contract till the gravitation
pressure and the radiational pressure balance eachoth
The tremendous amount of energy released during
this process is in the form of visible light.
So the protostar starts glowing.
Ans 2. Construction and working.
A the state of the second to t
1. Ordinarily the metals whose melting points are very low or which melt easily are purified by
very low or which mell easily are purified by
This method
Metallic
Powder (1)
Not air - 1000 Por December 1
Legacia har hilled

In this method there is a furnace with a stope.
This Stop is pre healed. Then the fine powder of
metal is allowed to full on the slope. Due to the
metal is allowed to full on the Stope. Due to the Reat of the Stope the metal liquidis but the
impusition init do not. The metal is collected in
the ressel below. Metals like hin I lead can
be purified by this method.
the mass of the Star is 10 times mere than the mass of our Sun; the helium formed during the red grant phase continues to Centraet.
the mass of our cun, the holium formed
during the red grant phase continues to central.
This Increases the temperature to a higher limit
As this contraction continues the energy
liberated causes the othe envelope to emplode
with a hilliant- flash. During this the energy
beherated is equal to radiation by the Sun in
about 100 years per minute. It would light up
The Sky for many days. Mt is known as Sypromore
The Sky for many days. It is known as Supernova.  Jo the history of astronomy, five Supernava.
enplosions are recerded for ever so far.
- Cog to sinte week in the second of
Band. The polamer which once Rottled I closs not
ity shape is known as thermo letting plastic;
become Soft when healest and does not change ity Shape is known as thermo letting plastic;  Bakelili and melamine are two examples of it.
And Moon is a sability of earth. The ago of moon
re almost same as that of the earth. The removement
on the Sustain of the moon during day time is look
and might is -115°c. The gravitation of the moon
is too deale and hence there is no atmosphere
My 2. Moon is a Sahellife of earth. The age of moon is almost same as that of the earth. The temperature on the Surface of the moon during day time is look and might is — 115°c. The gravitation by the moon is too feeble and hence there is no atmosphere hate is not possible as moon. The intensity of
magnetic field on the man is also were small.
magnetir field on the moon is also very small.  Aus. There is talk back' channel in INSAT is  Using it conversation can be made both ways.  These two are the contribution of INSATE Sakkete & India
1102mg it Convertation can be made hoth water.
The on drap and the Pantishe than al Tales is Callet al 1-1:
THESE TWO WIT THE COMMITTING THE TANKETTE TO SHALL

Ans 4.	For space employation, rocket engines are required to be kept on and off according to the need.  In the rocket with Salid fuel Combustion once  Started can not be Stopped and restarted at our
	will.
Au 5.	The gravitational Contraction of very massive neutron  Star goes on Contravously: It emperiences an  infinite Contraction and result into a point like  object. Its gravitational force being very high  even vadiation Connect escape from that point mass  b it Therefore it appears black. Such point like  object is called black hole
	TO TO CALIFER TO THE
18	Months a Sh
And 6.	Meteors:- There are particles and chunks of materials wandering through the Solar System. They are alled
	meteors. They are heavenly bodies
	Méteorites: - when meteors enter the atmosphere of
	the earth, a large amount of heat is produced due
	L. H. Sois Nias hith the extra sentione. He a results
	they starts burning Most of them burn out
	in the atmosphere But some meters do not burn
	Completely. The left over parts of Them fall on earth.
	they starts burning. Most of them burn out- in the atmosphere: But some meless do not burn Completely. The left over parts of them fall on earth. These are called meteorites.
	The neutron Star rotating Very fast about its own aris emits radio waves. They are alled pulsar.
	The oldest age of rock on moon is 3.7 x 109 years.
	3. The booster necket uses Solid fuel.
	one light year equals 9 46 x to 15 metres