

1 chap

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Class VIII ①

Hello dear students

I am your science teacher. Prabha Samadhyu. I think everyone knows me. I am sending you questions answers of chapter Please write down in your new copy.

Chapter 1

Crop production

Key terms

Agriculture : The science of practising farming

Compost : Manure prepared by decomposing organic waste

Horticulture : The science of growing vegetables, fruits and flower on large scale.

Irrigation : Watering the crop fields

Pesticides : chemicals used to kill the pests found on crops.

Weedicide : chemicals used to destroy weeds.

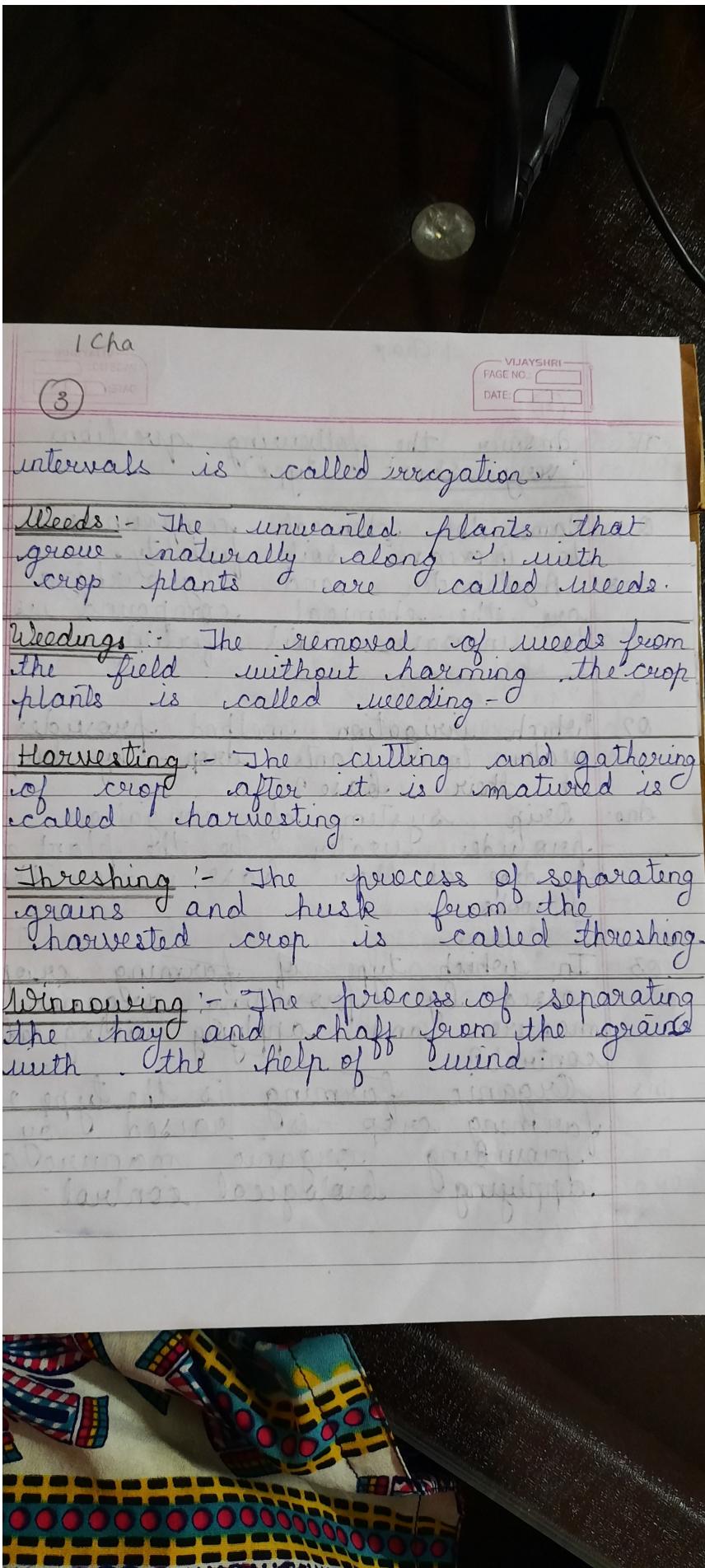
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Definitions

- 1 Animal husbandry :- The rearing of animals to obtain milk, meat and eggs is called animal husbandry.
- 2 Agriculture practise :- The practise of growing crops and rearing animals for food, clothes and other useful products.
- 3 Ploughing :- Ploughing is the process of loosening and turning over of soil. It is also known as tilling.
- 4 Transplantation :- In some crops like paddy (rice) and many vegetables (Chillies, tomato, etc.) the seeds are sown in the nursery. They grow into tiny plants called seedlings which are transferred to the main field. This is called transplantation.

Irrigation : The process of watering crop plant in the field at different





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intervals is called irrigation.

Weeds :- The unwanted plants that grow naturally along with crop plants are called weeds.

Weeding :- The removal of weeds from the field without harming the crop plants is called weeding.

Harvesting :- The cutting and gathering of crop after it is matured is called harvesting.

Threshing :- The process of separating grains and husk from the harvested crop is called threshing.

Winnowing :- The process of separating the hay and chaff from the grains with the help of wind.

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F Answer the following questions
(very short type)

1 Name the chemical compounds used to increase soil fertility.

Ans. Azotobacter and Mycorrhiza are the chemical compound used to increase soil fertility.

2 Which irrigation method provides water to plants drop-by-drop at their base?

Ans. Drip system of irrigation provides water to the plant drop by drop at their base i.e. near the roots.

In which type of farming crop is raised by providing organic manure and applying biological control?

Organic farming is the type of farming crop is raised by providing organic manure and applying biological control.



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Q4 What is flooding of fields causing accumulation of water for long called?

Ans. Flooding of fields causing accumulation of water for long is called water logging.

Q5 What are the organisms that attack and damage crops called?

Ans. The organisms that attack and damage crops ~~pests~~ are called pests. Examples - grasshopper, aphid, termite, moth etc.

Q6 Answer the following questions (short type).

Q1 Name different types of crops on the basis of their growing season.

Ans. The different types of crops on the basis of their growing season are

Q2 Rabi crop. - Rabi crop are sown in October / November and harvested in March / April. Examples - wheat, gram, pulses, mustard etc.

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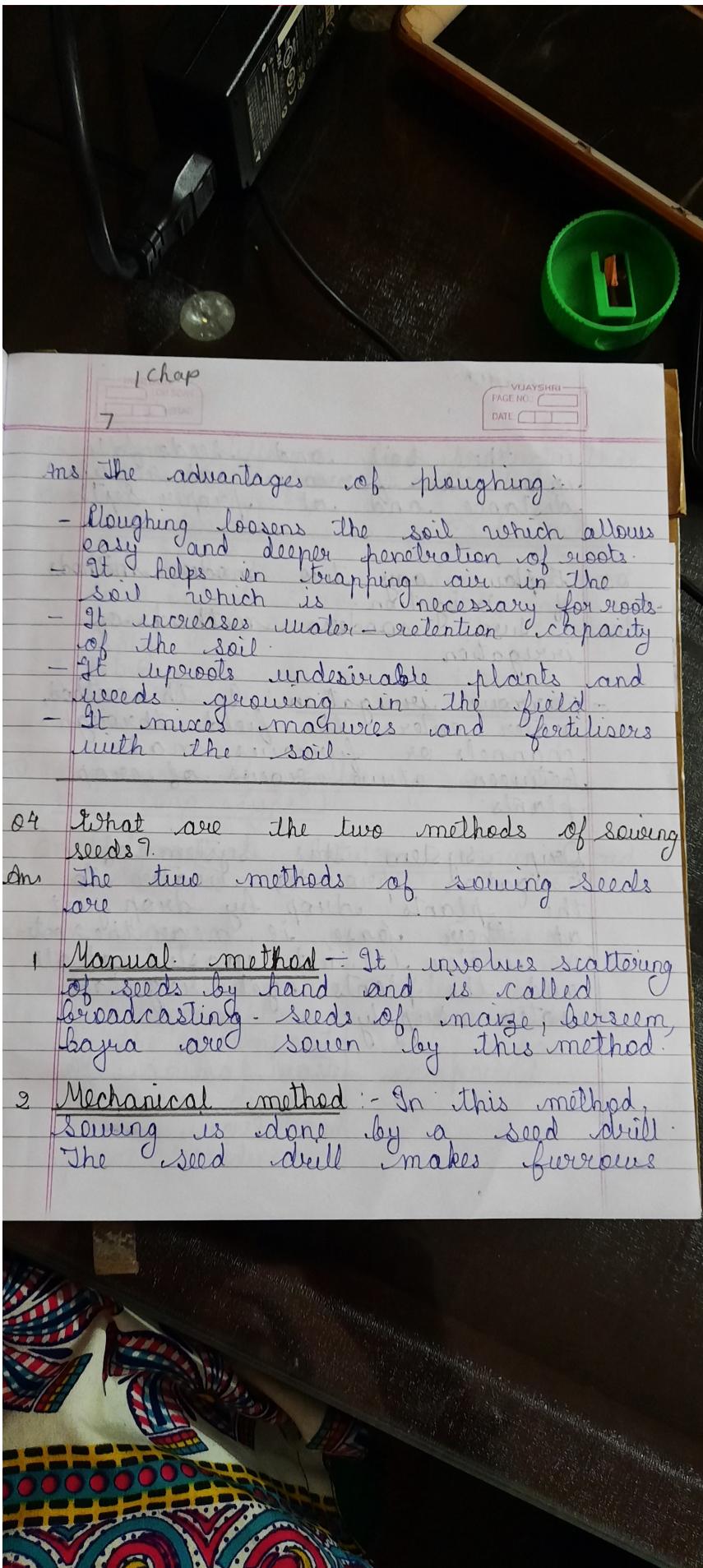
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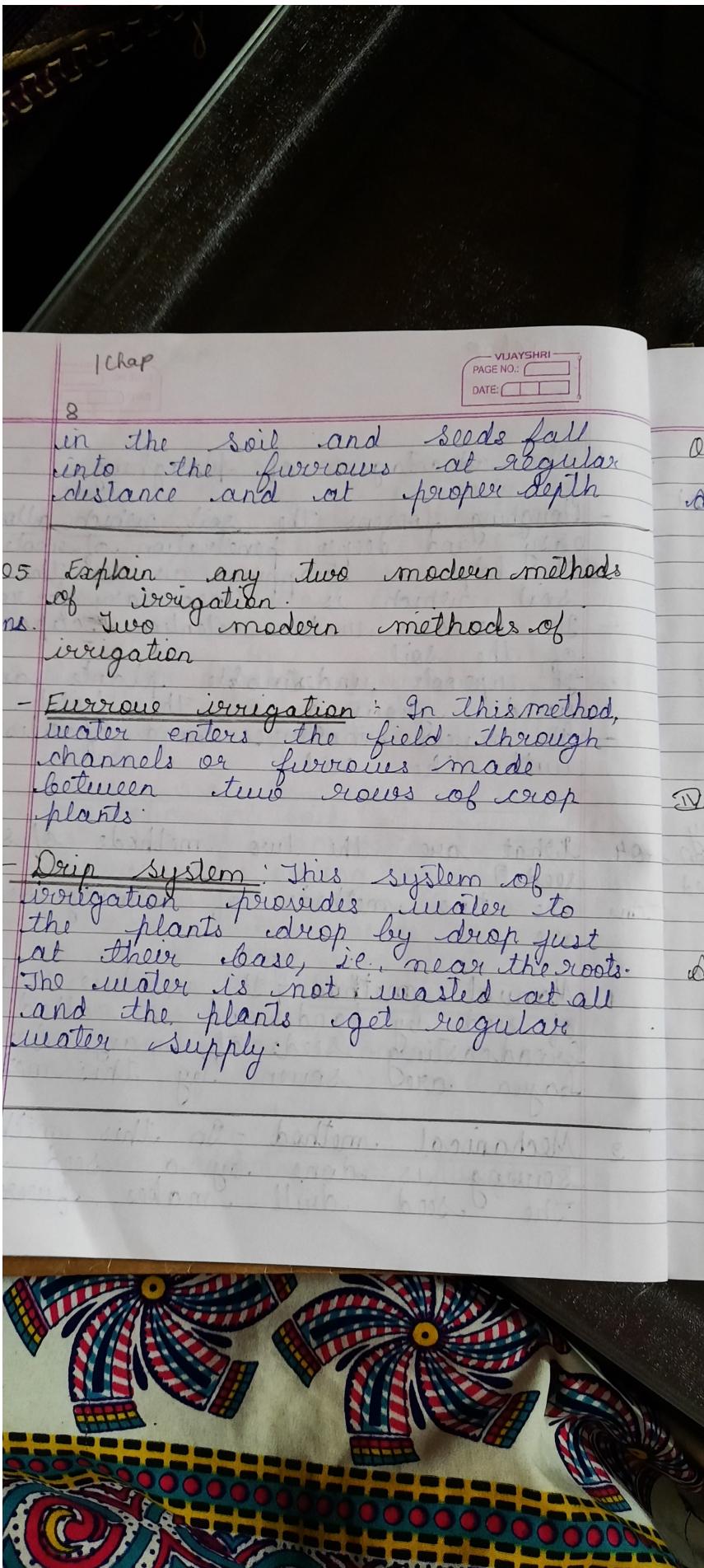
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- 2 Kharif crops are grown during rainy season in June / July and harvested in September / October.
Examples:- Paddy (rice), maize, jowar, bajra, groundnut, pulses, soyabean, cotton etc.
- 22 Name the different agriculture practices in the correct order.
- 23 The basic agricultural practices include
- Preparation of soil
 - Application of manures and fertilisers.
 - Selection and sowing of seeds.
 - Irrigation
 - Protection from weeds
 - Protection of crops from pests and diseases.
 - Harvesting
 - Threshing and winnowing
 - Storage of grains.

What are advantages of ploughing the field?







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Q6	Name different food products that we get from animals.												
Ans.	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center;"><u>Animals</u></th><th style="text-align: center;"><u>Food products</u></th></tr> </thead> <tbody> <tr> <td>1. Hen, duck</td><td>Egg and meat</td></tr> <tr> <td>2. Cow, Buffalo, Sheep, goat, yak, camel, pig.</td><td>Meat, milk and milk products</td></tr> <tr> <td>3. Honeybees</td><td>Honey</td></tr> <tr> <td>4. Fish</td><td>Meat, oil</td></tr> </tbody> </table>	<u>Animals</u>	<u>Food products</u>	1. Hen, duck	Egg and meat	2. Cow, Buffalo, Sheep, goat, yak, camel, pig.	Meat, milk and milk products	3. Honeybees	Honey	4. Fish	Meat, oil		
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4. Fish	Meat, oil												
Q7	Answer the following questions (long type)												
Q1	Differentiate between manures and fertilisers.												
Ans	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center;"><u>Manure</u></th><th style="text-align: center;"><u>Fertiliser</u></th></tr> </thead> <tbody> <tr> <td>1. Manure is a natural substance obtained by the decomposition of animal wastes like cow dung, human wastes and plant residues.</td><td>Fertiliser is an inorganic salt or compound.</td></tr> </tbody> </table>	<u>Manure</u>	<u>Fertiliser</u>	1. Manure is a natural substance obtained by the decomposition of animal wastes like cow dung, human wastes and plant residues.	Fertiliser is an inorganic salt or compound.								
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10	Manure	Fertiliser
2	Manure is not nutrient specific. It only removes the general deficiency of nutrients.	Fertiliser is nutrient specific and provides specific nutrients to the soil.
3	Manure is not very rich in nutrients like nitrogen, phosphorus and potassium.	Fertiliser is very rich in nutrients like nitrogen, phosphorus and potassium.
4	Manure provides humus to the soil.	Fertiliser does not provide any humus to the soil.
5	It is prepared in the fields.	It is manufactured in factories.
	It is not readily soluble in water and it is absorbed slowly by the plant.	It is soluble in water and is easily absorbed by the plant.



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Q2. What is weeding? What are the different methods of weeding?
Ans. The removal of weeds from the field without harming the crop plants is called Weeding.
The different methods of weeding
Mechanical method:-
→ Weeding from the soil before sowing seeds is done by using big, comb like implement called harrow or rake.
- From a standing crop, weeds are removed manually by pulling them out by hand or by using a tool (Khurpi).
Chemical method:- The chemical substance used to kill weeds are called weedicides. The weedicides kill the weeds but do not harm the crop plant. Eg - 2,4-D (ie 2,4-di chlorophenoxy acetic acid)
Biological method:- In Biological control insects are released in the field which feed on weeds.



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and destroy them. For example Technical insect in Tamil Nadu is used to eliminate prickly pear (*Opuntia*) from the crop field.

Q24

Ans

Q3 What are the advantages of sowing seeds with a seed drill?

Ans The advantages of sowing seeds with a seed drill are

- Seeds are sown uniformly at proper distance.
- Seeds are sown at proper depth in the furrows only.
- Seeds get covered with soil. This prevents the chance of seeds being picked up and eaten by birds.
- It is faster and saves time as well as labour.
- It prevent wastage of seeds due to unequal distribution.



Q4 Write some preventive measures to control pests in stored grains?

Ans: The stored grains can be protected from insect and fungal infestation.

- Fumigation with chemicals (fumigants) which kill or repel pests without affecting stored grain.
- Neem leaves are kept along with the grain to repel pests.
- Small quantity of vegetable oil or mineral oil is added to grains of legumes to prevent pests from laying eggs and to check larval development.
- The storage area can be sprayed regularly after every three weeks to kill pests.
- For storing grains at home, powdered neem leaves and black pepper are mixed to check insects' eggs and larvae.



Chapter 3

Synthetic fibres and plastics.

I Key terms

Monomer :- Small units which join to make a bigger unit.

Polymer :- A very large unit made up of thousands of smaller units joined together.

Thermoplastic :- The plastic that can be remoulded as many times as desired.

Thermosetting :- The plastic that plastic cannot be remoulded after setting, even on heating.

II Definition

1. Thermosetting plastic :- The plastic are polymers which once set cannot be shaped even cannot be reshaped even on heating.

2. Polymer :- A very large unit made up of thousands of smaller units joined together.



3 Monomer :- Small unit which join to make a bigger unit.

4 Synthetic fibres - Synthetic fibres are fibres made by chemical processes. These fibres are made by man. Examples - rayon, nylon, polyester and acrylic.

5 Polymerisation - The process of joining together of monomers to form a polymer is known as polymerisation.

III Answer the following questions
(Very short)

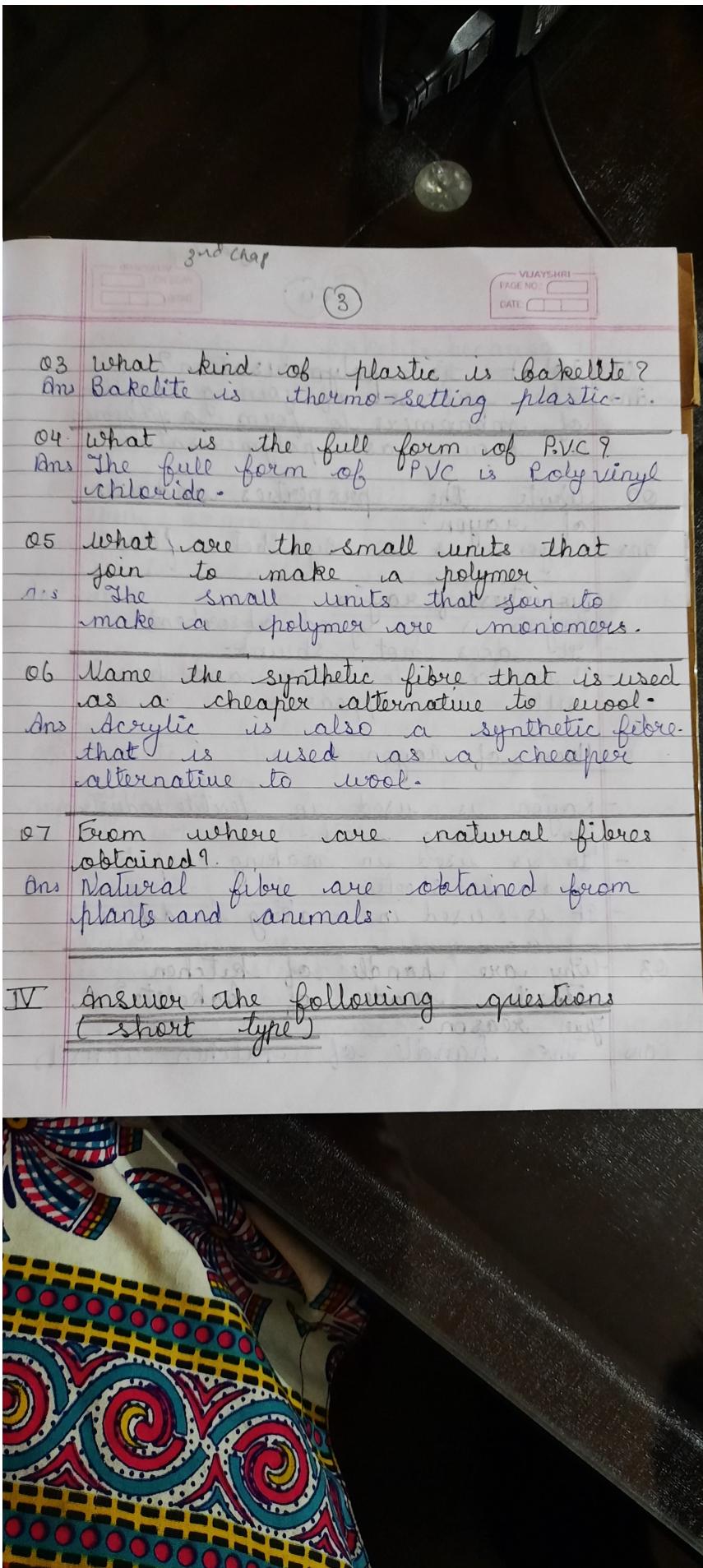
Q1 What is the other name of synthetic fibre?

Ans The other name of synthetic fibre is man-made fibre.

Q2 Which is the first fully synthetic fibre?

Ans Rayon is the first fully synthetic fibre.





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Q1. What is polymerisation?

Ans. The process of joining together of monomers to form a polymer is known as polymerisation.

Q2. Write the properties and uses of rayon.

Ans. Rayon is a synthetic fibre.

Properties of rayon

- Rayon is a good absorbent.
- It does not shrink.
- It is cool to wear and has silk like appearance.

Uses of rayon

- Rayon is used in textile industries for making cloth.
- It is used in making carpets and bed sheets.
- It is used in making bandages.

Q3. Why are handle of kitchen utensils made of bakelite? Give reason.

Ans. The handle of kitchen utensils



are made of bakelite because they do not become soft on getting heated and they are poor conductors of heat.

Q4 what are synthetic fibres ? Give their examples.

Ans Synthetic fibres are made of small units called monomers. They are much stronger and do not absorb water and dry up quickly.

Examples of synthetic fibres—
nylon, rayon, polyester, acrylic.

Q5 Write the properties and uses of nylon.

Ans Nylon is tough and strong and a thermoplastic.

Properties of nylon

- Nylon is very strong i.e. has high tensile strength.
- It is shiny and elastic.
- It is soft, smooth and light weight.
- It absorbs less water and dries



- quickly
- It has wash and wear property, i.e., it does not require ironing.

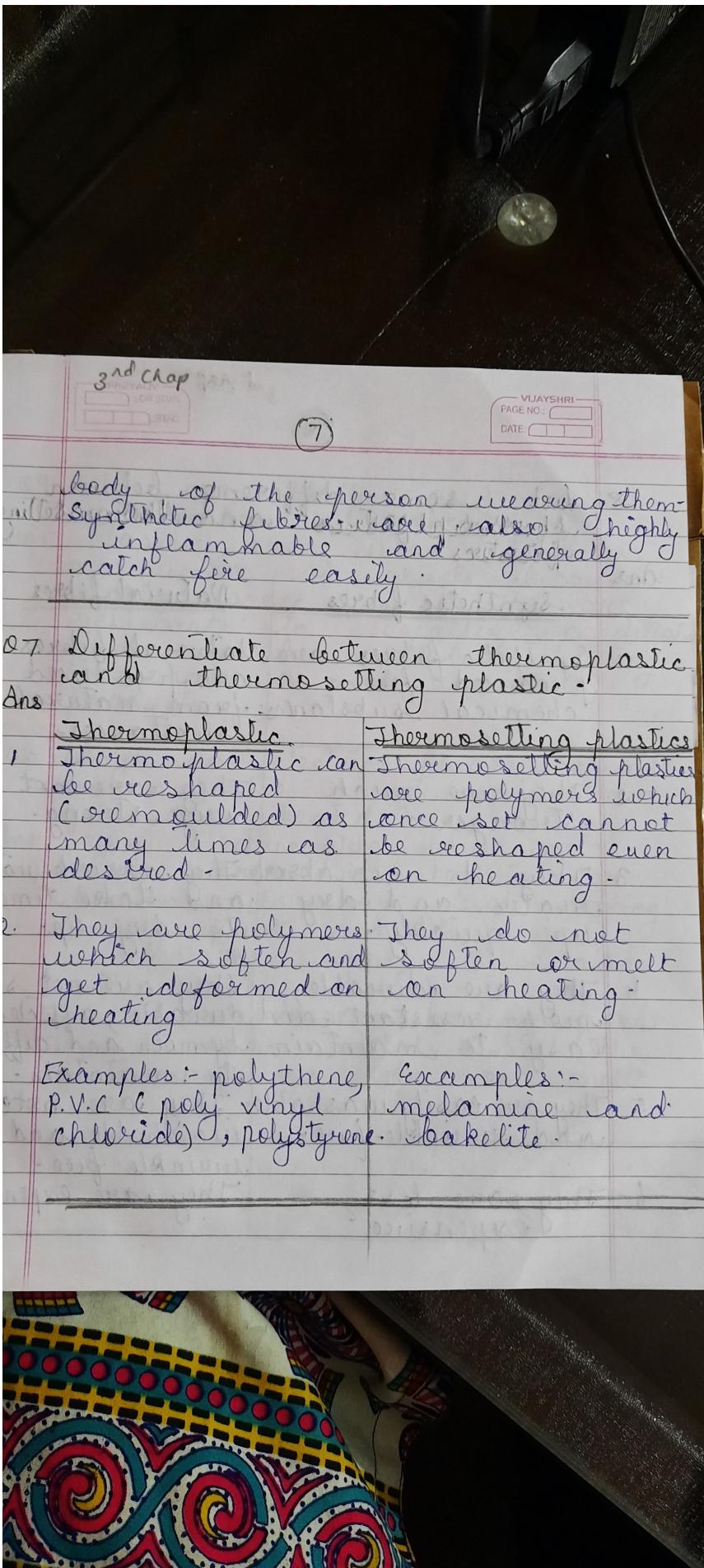
Uses of nylon

- It is used in clothing to make dresses, track suits, socks, swim wears, rain coats, stocking, shorts, etc.
- It is used in making curtain, bed sheets etc.
- It is used in making ropes, parachutes, fishing net, tooth brushes, car seat belts, sleeping bags, rackets, strings, tyres, umbrellas etc.

5. Why it is not advisable to wear synthetic clothes in the kitchen?

1. It is not advisable to wear synthetic clothes in the kitchen because if accidentally fire the clothes catch fire. The synthetic clothes melt and stick to the





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- Q8 List some difference between synthetic fibres and natural fibres.

Ans

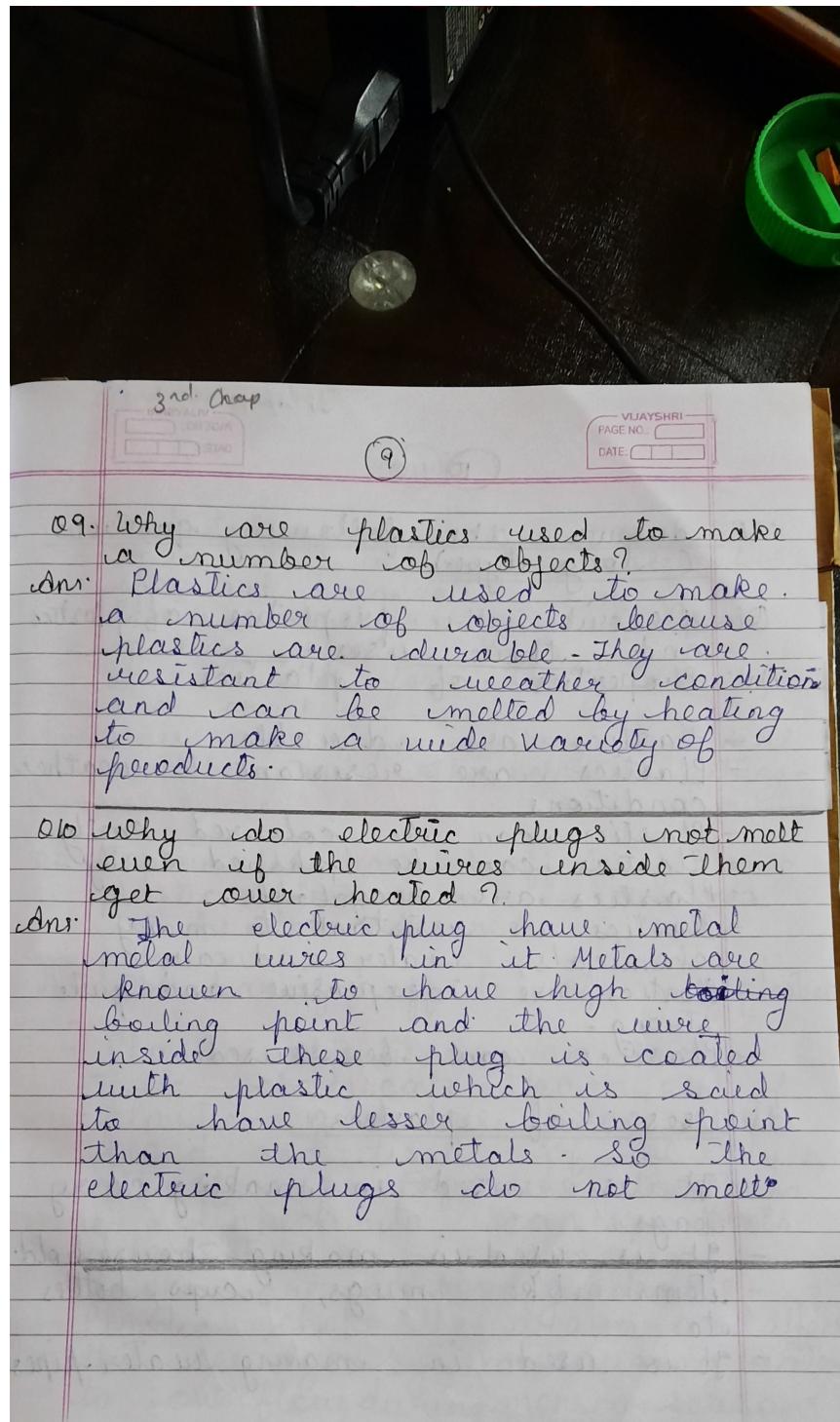
Synthetic fibresNatural fibres

1. Synthetic fibres are produced from chemical substances, whereas natural fibres are produced from natural substances.
2. They are much stronger. They are not very strong.
3. They do not absorb water, and dry up quickly. They absorb water and take time to dry up.
4. They are durable, moth resistant and easy to maintain. They are not so durable, affected by moth and difficult to maintain.
5. They are easily washable and wrinkle-free. They are not easily washable and wrinkle-free.

They are less expensive.

They are expensive.





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IV Answer the following questions
(long type).

Q1. Describe the properties of plastic
and their uses.

Properties of plastics

- Plastics are durable
- Plastics are resistant to weather conditions
- Plastics can be coloured easily.
- Plastics can be shaped easily.
- Plastics are recyclable.
- Plastics are resistant to many chemicals, water and air.
- Plastics are inexpensive and quite strong.
- Plastics can be reused.

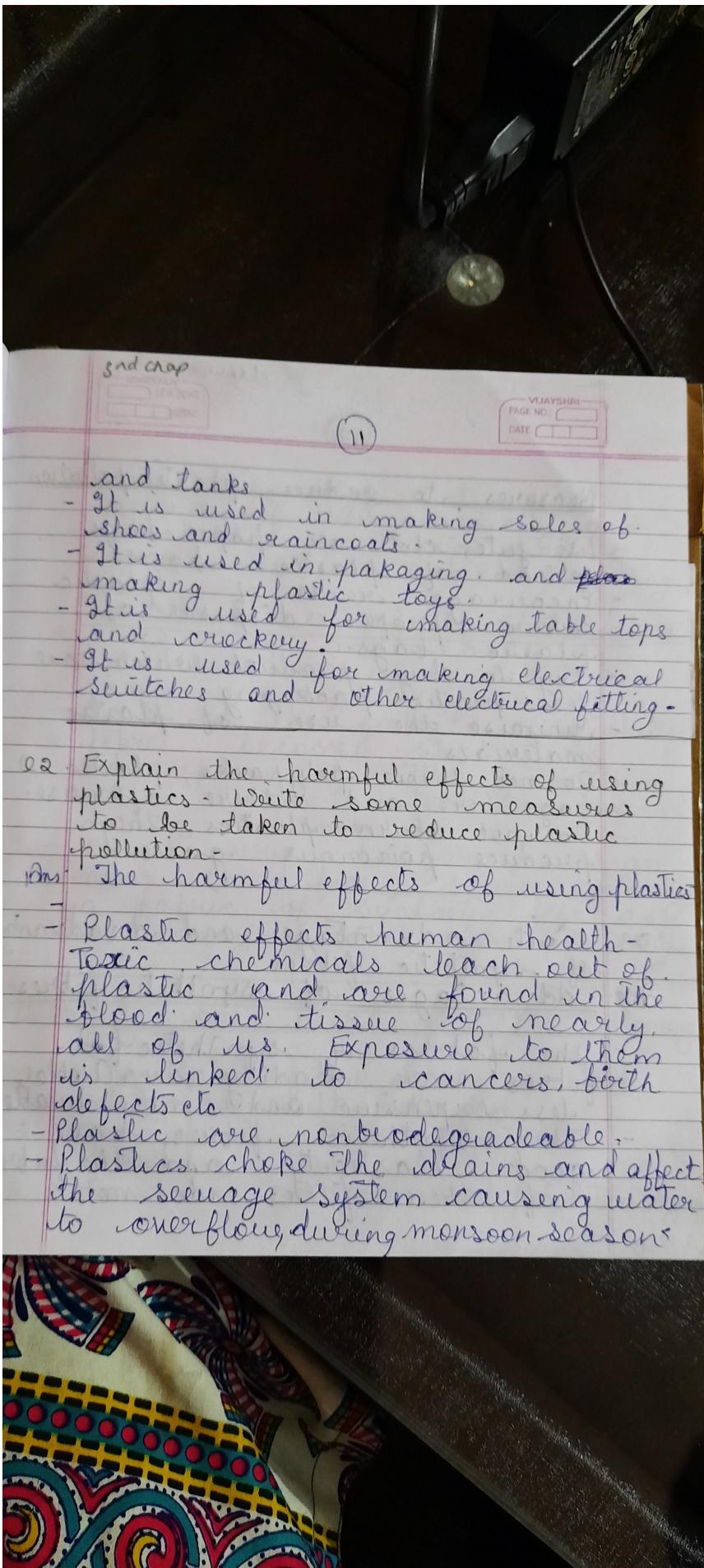
Uses of plastics.

It is used in making carry bags.

It is used in making household items like mugs, cups, bottles etc

It is used in making water pipes.





Measures to reduce plastic pollution.

- Use jute, cloth or paper bags instead of plastic bags.
- Encourage reuse of plastic.
- Ensure proper disposal of plastic bags.
- Try to buy product which have less plastic packaging.
- Minimise the use of plastic materials.
- Do not throw poly packs, plastic bags here and there after use.
- Do not burn plastics, they produce poisonous gases.

Q3 Write advantages and disadvantages of synthetic fibres.

Ans: Advantages of synthetic fibres

- The fabrics of synthetic fibres are readily available.
- less expensive and more durable.
- The synthetic fibres have good elasticity and the fabrics of these fibres do not



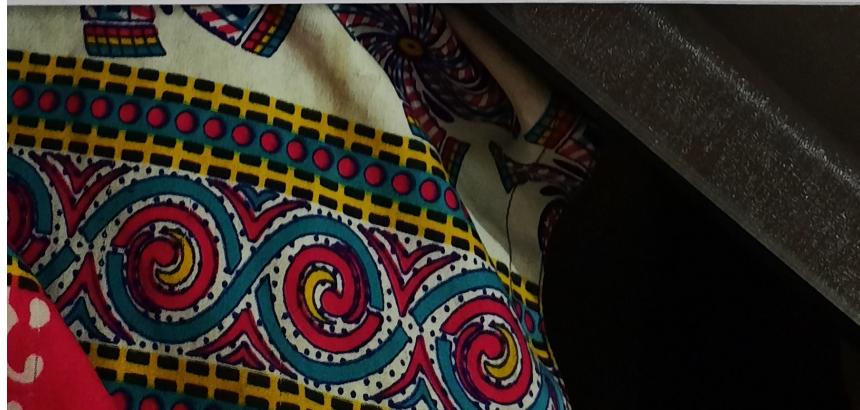
- wrinkle easily.
 - Because of their elasticity and durability they can handle heavy loads without breaking.

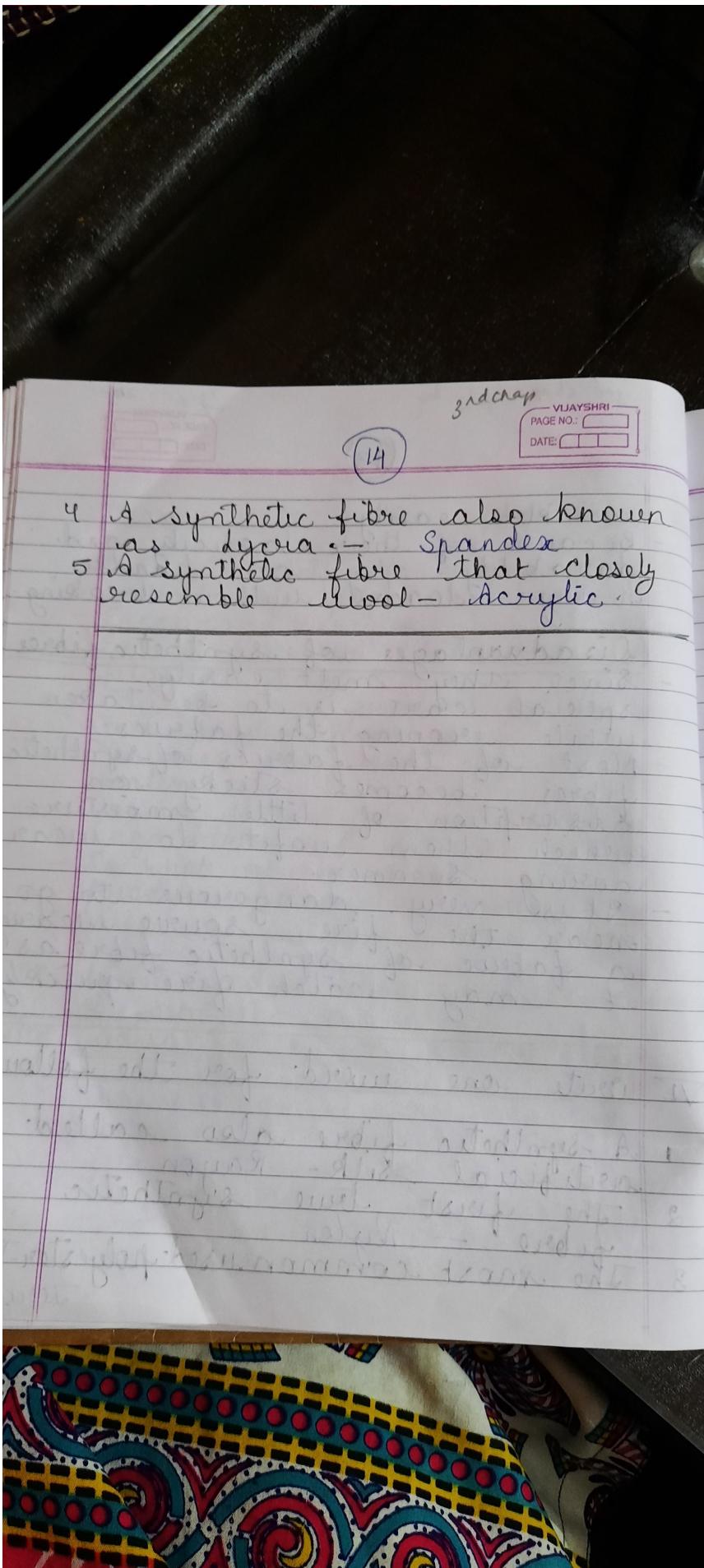
Disadvantages of synthetic fibres

- Since they melt easily, special care is to be taken while ironing the fabrics.
- Most of the fabrics of synthetic fibres becomes sticky on absorption of little moisture which them unfit to wear during Summer.
- It is very dangerous to go near the fire source wearing a fabric of synthetic fibre as it may catch fire quickly.

VI Write one word for the following

- 1 A synthetic fibre also called artificial silk - Rayon
- 2 The first true synthetic fibre - Nylon
- 3 The most common used polyester-Terylene
Terylene





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chapter 5

Coal and Petroleum

I Key Term

Carbonisation - Slow conversion of dead trees and plants into coal.

Coal gas - The gas obtained when coal is heated in the absence of air.

Coal tar - A thick black liquid formed by heating coal in the absence of air.

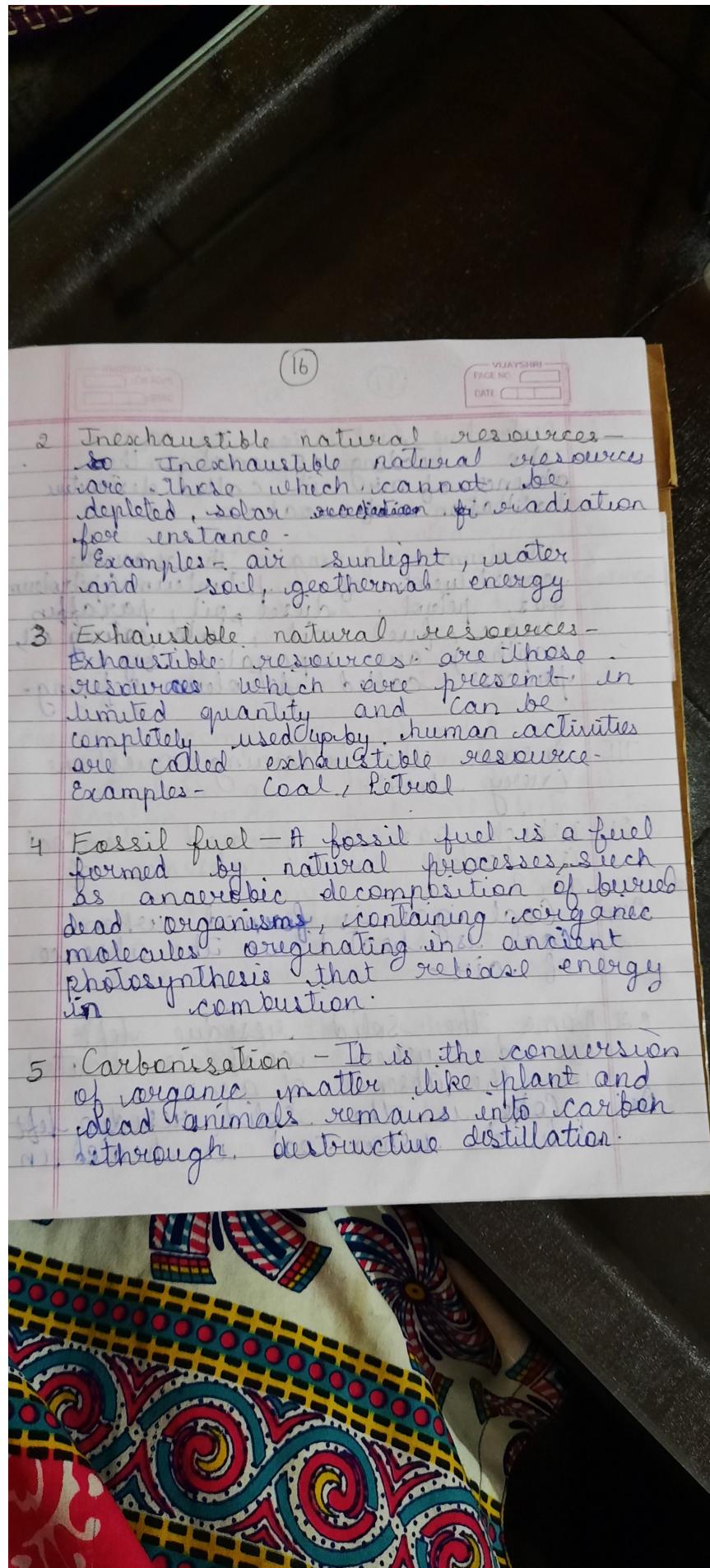
Coke - A solid fuel formed by heating coal in the absence of air.

Natural gas - A fuel consisting of methane.

II Define these terms

- 1 Natural resource - A natural resource is what people can use which comes from the natural environment.
Examples - air, water, wood, oil, wind energy, natural gas, iron and coal.





6 Destructive distillation of coal -
The heating of coal in the absence of air is called destructive distillation of coal.

7 Petroleum refining - The various constituents of petroleum (petroleum gas, petrol, diesel oil, paraffin wax, fuel oil, lubricating oil, naptha) are separated by a process called petroleum refining.

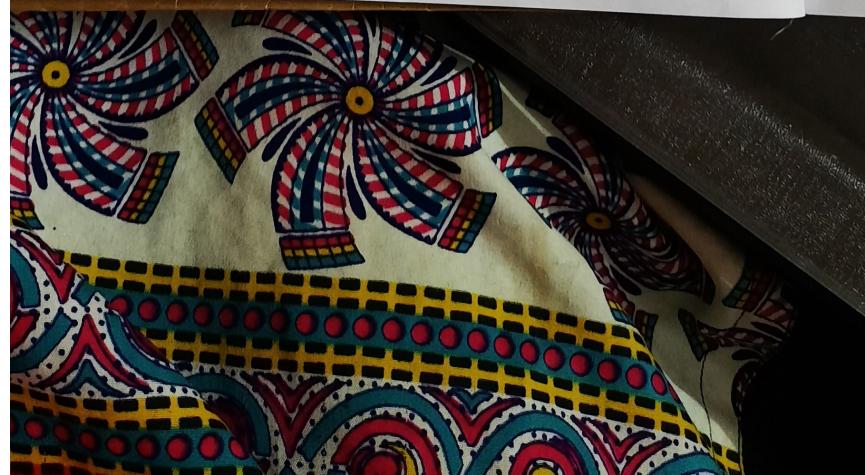
III Answer the following questions (very short).

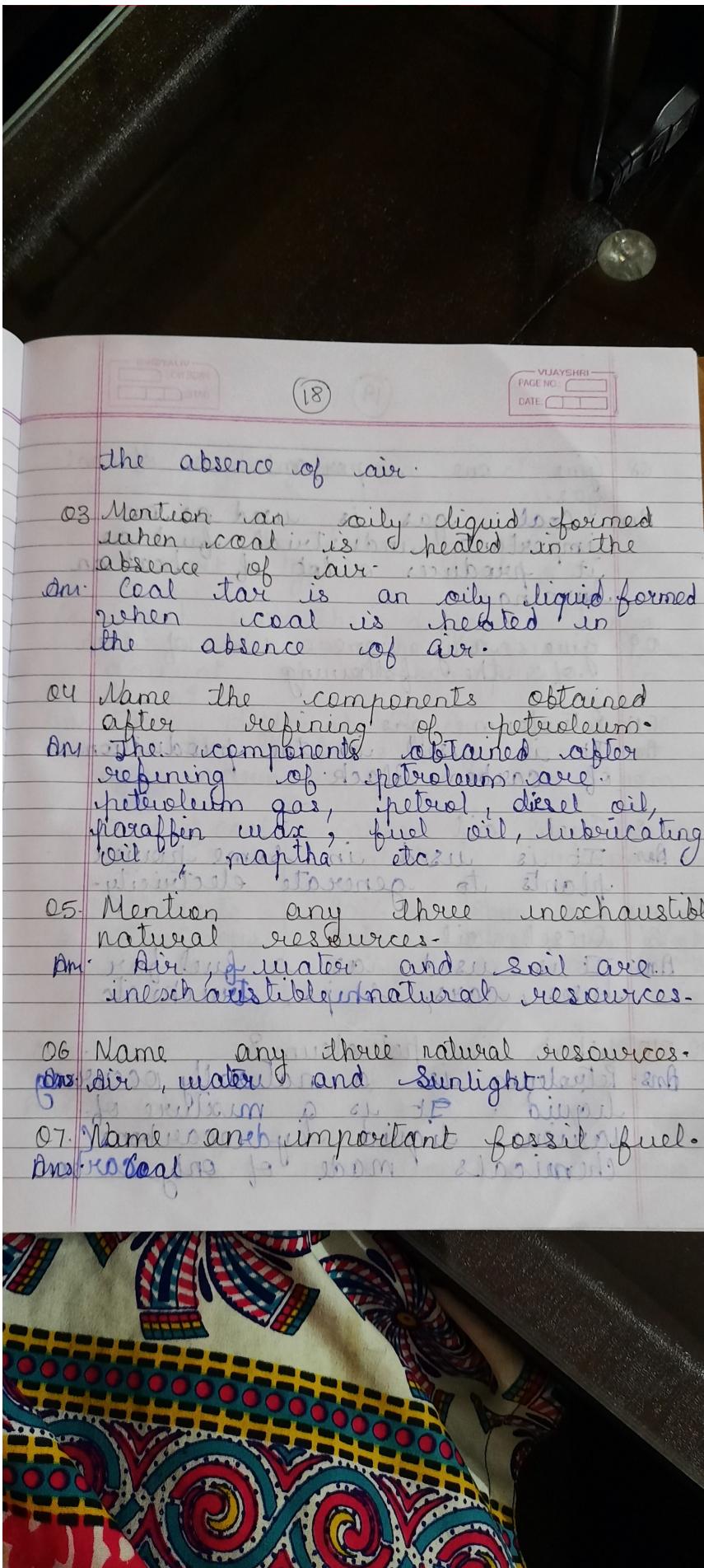
Q1 Which gas is formed when coal is heated in the absence of air?

Q2 Coal gas is formed when coal is heated in the absence of air.

Q3 Name the solid residue left behind when coal is heated in the absence of air.

Q4 Coke is the solid residue left behind when coal is heated in





Q8 Give one important use of coal gas.

Ans Coal gas is used as an important industrial fuel as it produces a lot of heat on burning.

Q9 Give any one use of each of the following

(1) Petroleum gas

Ans It is used in the production of carbon black for printer.

(2) Fuel oil

Ans It is used in some power plants to generate electricity.

3 Diesel oil

Ans It is used as a fuel for buses, cars, ships, trucks etc.

Q10 What is petroleum?

Ans Petroleum is a naturally occurring liquid. It is a mixture of various liquid hydrocarbons/ chemicals made of only carbon.



and hydrogen.

IV Answer the following questions (short type).

Q1. What are the different types of coal on the basis of amount of carbon present in them?

Ans: The different types of coal on the basis of amount of carbon present in them

Types of coal	Carbon content	Properties (Approximate)
1. Anthracite	90%	Shiny black very hard
2. Bituminous	60%	Black in colour break.
3. Lignite	40%	Brown in colour, easily Softer.

Q2. Write some uses of coke, coal gas and coal tar.

Ans: Coke

Uses of coke.

Coke is used in the extraction



of metals like iron, etc.
2 It is used in the preparation of fuel gases like producer gas ($C_2O + N_2 + H_2$) and water gas ($CO + H_2$).

(b) Coal gas.

Uses of Coal gas:

- 1 Coal gas is used as an important industrial fuel as it produces a lot of heat on burning.
2. It was used for street lighting for many years as it produced a luminous flame on burning.

(c) Coal tar

Uses of Coal tar

Coal tar can be used to make ink, dyes, detergents, insecticides and artificial fibres.

Q3 What is coke? How is it obtained?

Ans Coke is greyish-black in colour but is not as shiny as coal.



It has a rough texture. It is a smokeless fuel.

When coal is heated in the absence of air, the volatile impurities (having low melting point and boiling point) and moisture get removed. The solid left behind is coke.

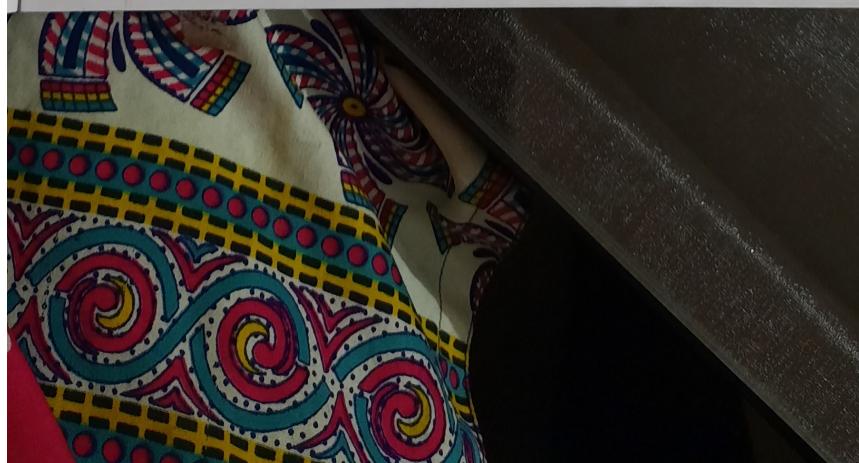
Coke = Coal - Volatile impurities and moisture

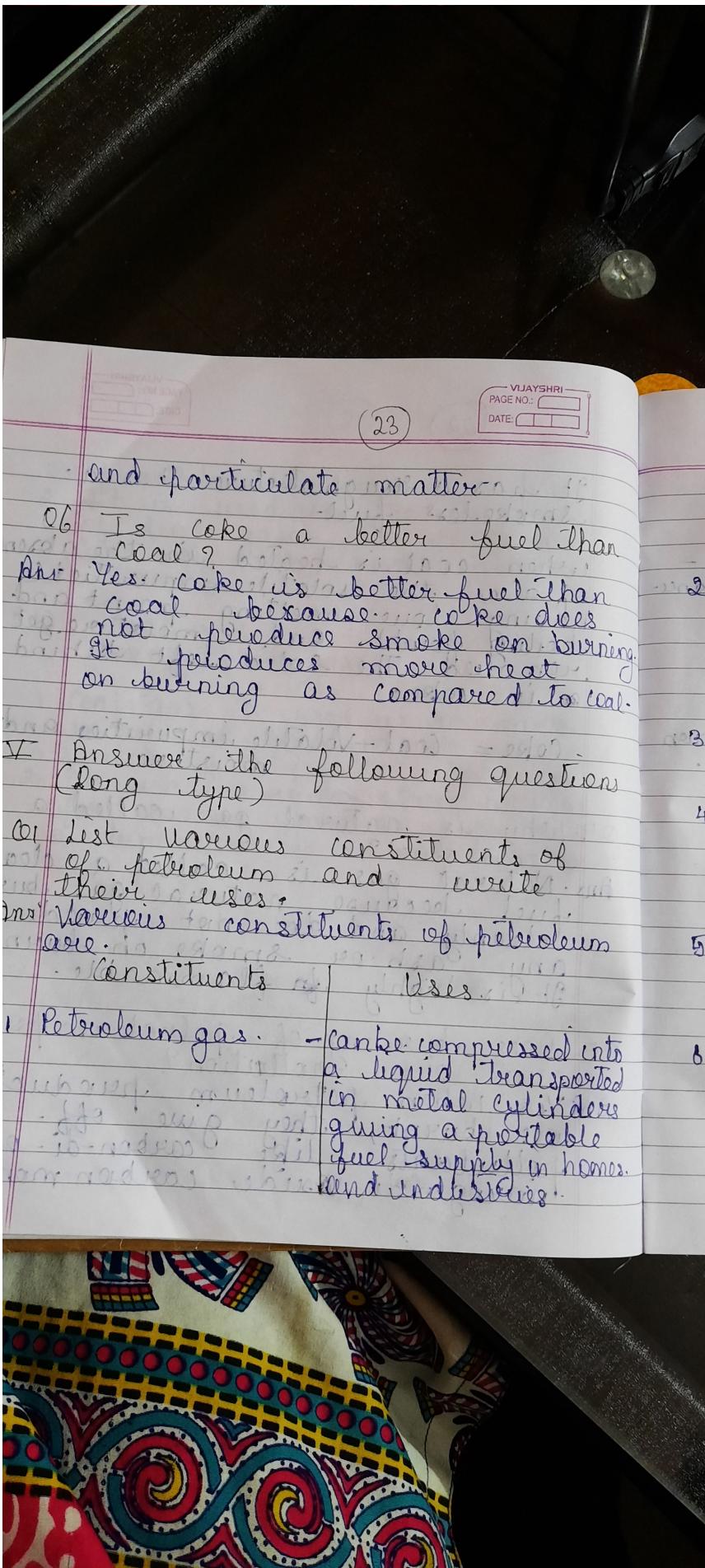
Q4. Why is natural gas called a clean fuel?

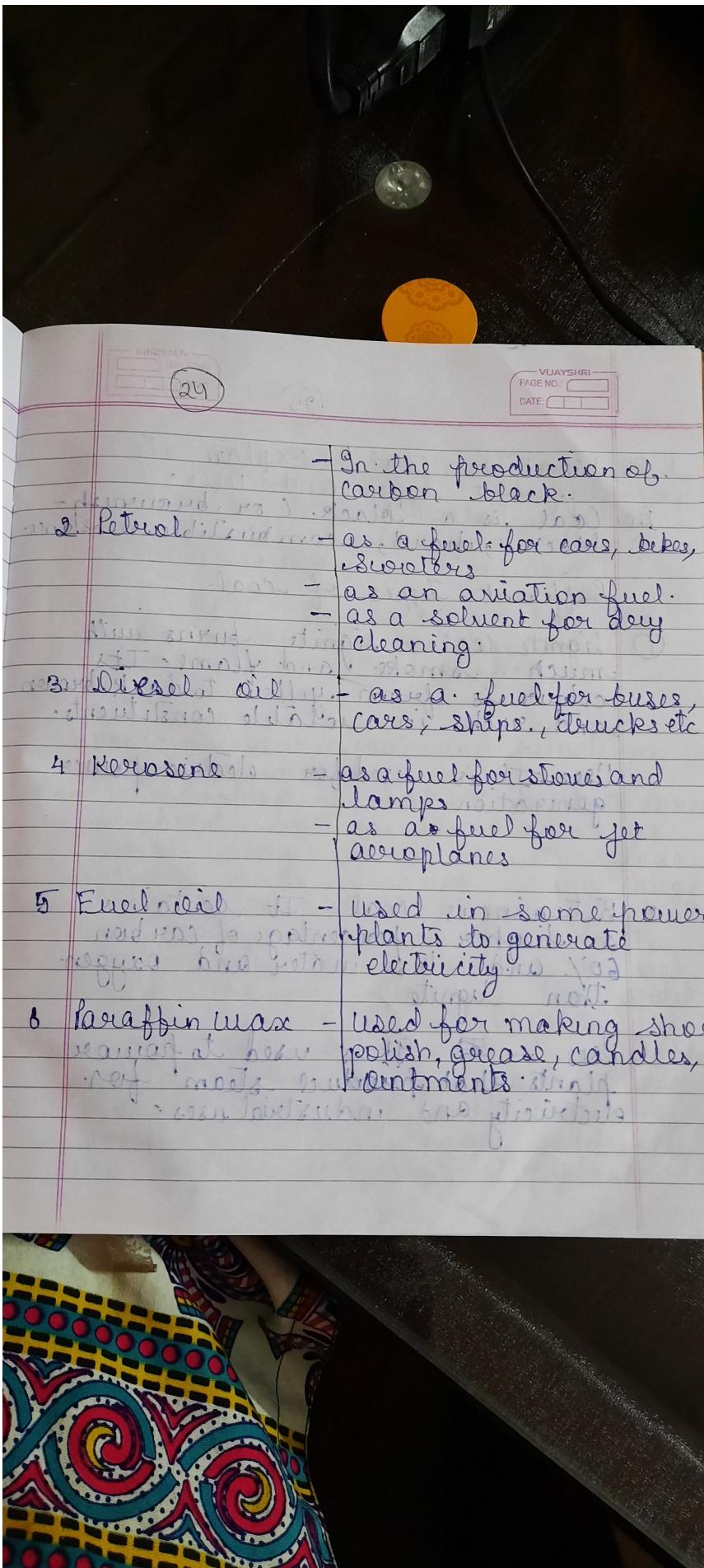
Ans. Natural gas is called a clean fuel because natural gas burns cleanly and does not produce any ash or smoke on burning. It is highly flammable.

Q5. Does burning of petroleum products cause air pollution?

Ans. Yes, when petroleum products are burnt, they give off pollutants like carbon-di-oxide, nitrogen di-oxide, carbon monoxide.







Q2. What is coal? Explain its different types and uses.

Ans: Coal is a black (or brownish-black), hard, combustible substance.

Different types of coal.

① Lignite coal → Lignite burns with much smoke and flame. Its colour is from yellow to dark brown and rich in volatile constituents.

Uses → It is used for electric power generation.

2. Bituminous coal → It contains a higher percentage of carbon (60%) and less water and oxygen than lignite.

Uses → It is used to power plants that produce steam for electricity and industrial uses.



3 Anthracite coal - It is extremely hard and has a brilliant black lustre. It has the highest carbon content 90% and produce practically no smoke or flame.

Uses - It is used for polishing and used in decorative purpose. It is also used for a domestic fuel.

Q3 Explain how coal and petroleum were formed.

Ans: Formation of coal. → about 300 million years ago, our earth was covered with dense forests and swamps having huge trees, ferns and other leafy plants. As these trees and other plants died, they fell down on the wet and swampy floor of the forest and began to sink into the soil. More and more dead vegetable, grain and soil deposited over them. The heat and pressure from the top layers gradually turned the remains of plant



Formation of fossil petroleum.

Petroleum was formed from the remains of very tiny animals and plants that lived in the sea and died millions of years ago. After they died, their bodies sank and got buried at the bottom of the sea.

Over time, they were covered by layers of sand, silt and clay and became very thick and remained buried deeper and deeper.

In the absence of air, enormous heat and pressure from these layers, the dead organisms slowly changed into petroleum and natural gas.

Very back on history. This hot spring has been used for thousands of years. It contains sulphur water which is good for health. It is also used for washing clothes.



Chapter 6

Combustion and Flame

Key Terms

Combustion : A chemical reaction in which a substance reacts with oxygen present in the air to produce heat and light.

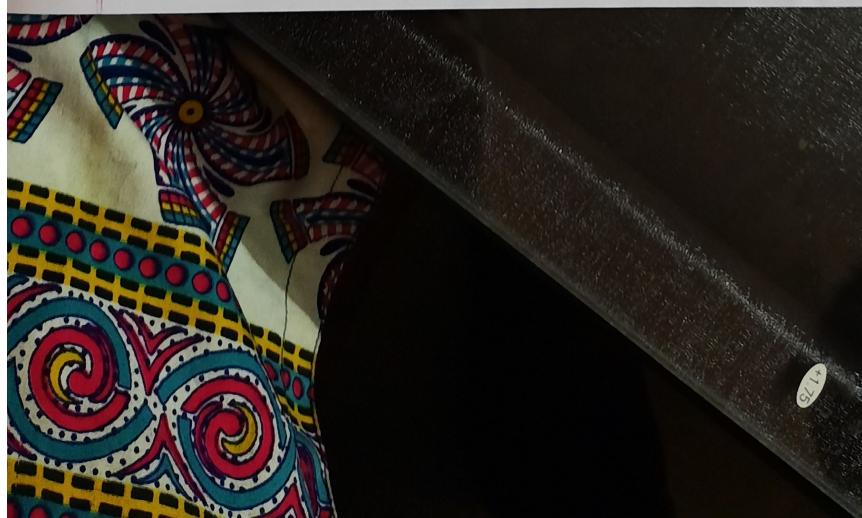
Combustible substance - A substance that can burn or catch fire.

Ignition Temperature : Minimum temperature at which a substance catches fire.

Define these terms

Combustion - A chemical reaction in which a substance reacts with oxygen present in the air to produce heat and light.

Ignition temperature - The minimum temperature at which a substance catches fire is called its ignition temperature.



3 Calorific value :- The quantity of heat produced by complete combustion of 1kg of a fuel is called its calorific value. It is expressed in KJ/kg.

4 Global warming :- Global warming is the gradual rise in the temperature of earth's surface, ocean and atmosphere.

III. Answer the following questions (Very short type)

Q1. Name the minimum temperature at which a substance catches fire.

Ans. The minimum temperature at which a substance catches fire is called ignition temperature.

Q2. Which gas is used to extinguish fire?

Ans. Carbon dioxide is a gas used to extinguish fire.



Q3 What is the other name for the outer zone of a candle flame?
Ans The other name for the outer zone of a candle flame is the innermost zone.

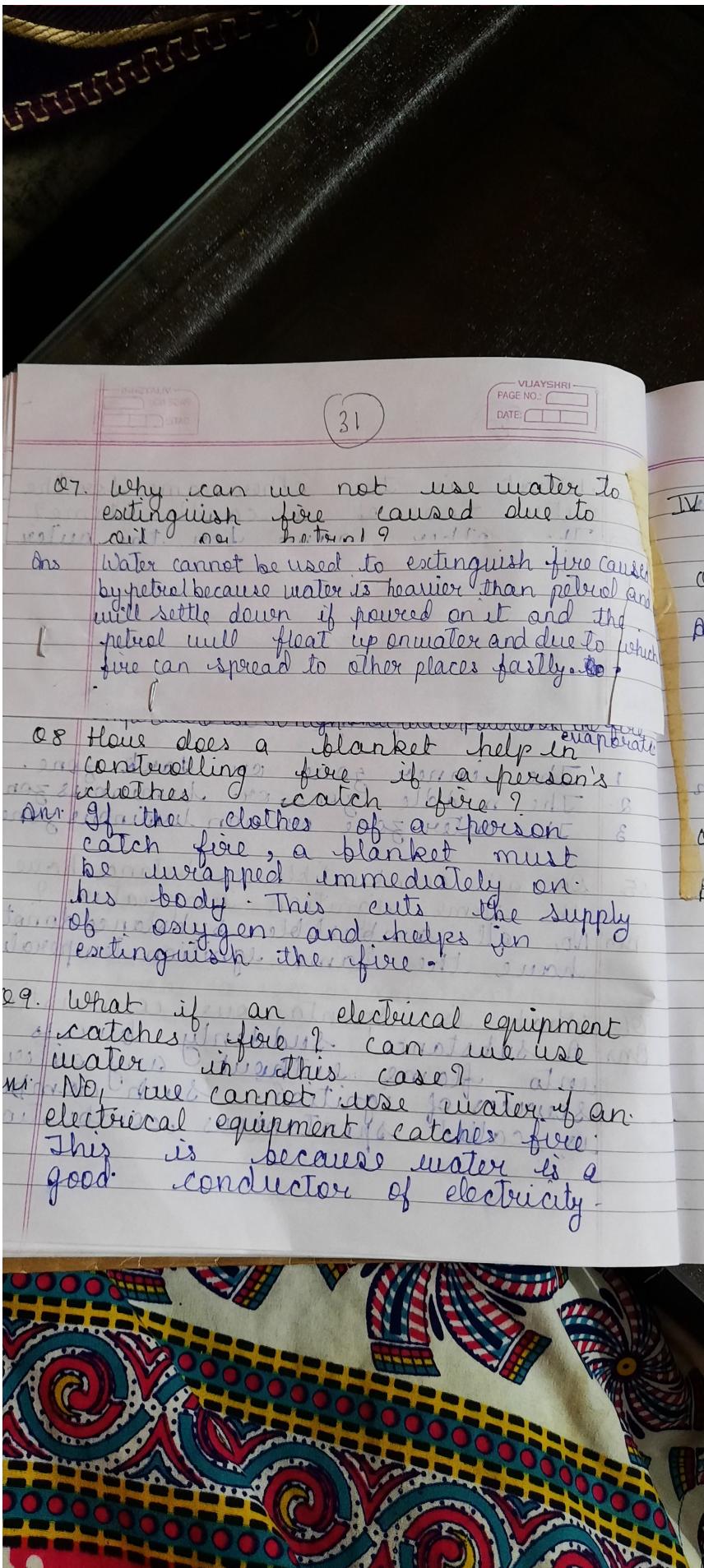
Q4 What are the different zones of a candle flame?
Ans The different zones of a candle flame are:

- 1 The inner zone or dark zone.
- 2 The middle zone or luminous zone.
- 3 The outer zone or an luminous zone.

Q5 Do all combustible substances have the same ignition temperatures?
Ans No, all combustible substances don't have the same ignition temperature.

Q6 What is spontaneous combustion?
Ans A substance suddenly bursts into flame without any external source of ignition. Such combustion is called spontaneous combustion.
(In simple terms, it means that a substance ignites by itself.)





IV Answer the following questions
(short type)

Q1. What are the conditions necessary for combustion to take place?

Ans. The conditions necessary for combustion to take place are:

1. Presence of air or oxygen (also called supporter of combustion).

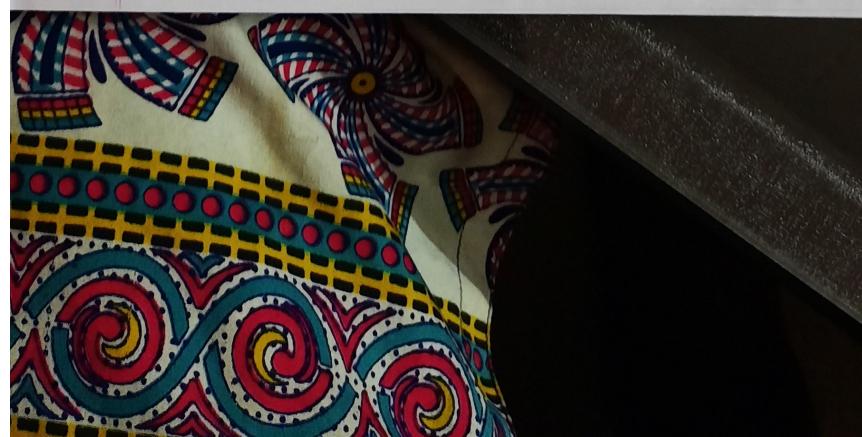
2. A combustible substance.

3. Ignition temperature.

Q2. Why do all substances not produce flame on burning?

Ans. All substances do not produce flame on burning because certain substances like coal do not vaporize and hence doesn't produce a flame.

Q3. Why are we advised not to use water to put out a fire caused by electricity wires?



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Ans We are advised not to use water to put out fire caused by electric wires because water is good conductor of electricity. It conducts electricity and may result in electric shock.

Q4 Explain the types of combustion with the help of examples.

Ans There are two types of combustion

- 1. Rapid combustion
- 2. Spontaneous combustion

1. Rapid Combustion :- On bringing a burning matchstick or a lighter near a gas stove, the gas burns very rapidly. Heat and light are also produced. This type of combustion is called rapid combustion. Along with heat and light a large volume of gas is also produced. This sudden release of large volume of gas may create



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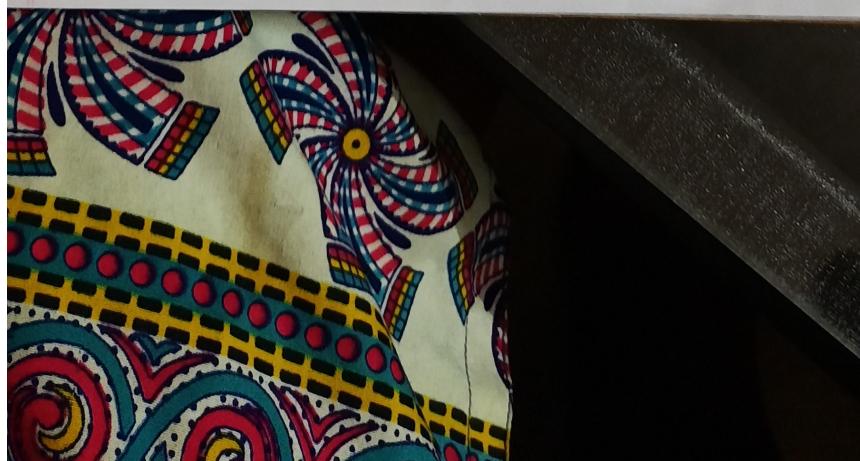
large pressure that produces a large noise. This is called an explosion.

Q. Spontaneous combustion - Sometimes a substance suddenly bursts into flames without any external sources of ignition. Such combustion is called spontaneous combustion.

A substance called white phosphorus gets ignited spontaneously at room temperature during summer when the temperature goes to about 35°C . so white phosphorus stored under water.

I Answer the following questions:
(long types).

1. Explain the different zones of a candle flame with the help of a diagram.
2. The different zones of a candle flame are.
— The inner zone (Darkzone) - This zone



is dark-black in colour. This zone consists of unburnt wax vapour. This zone of the candle flame is the least hot. It has a temperature of about $800 - 1000^{\circ}\text{C}$.

2 The middle zone (Luminous zone) This is the zone where the wax vapour starts burning. The flame is yellowish as the oxygen is not available in plenty in this region. The wax vapour does not burn completely. The temperature is about 1200°C .

3 The outer zone (Non-luminous zone) This is the zone where wax vapour burns completely as oxygen is available in plenty in this region. The flame is blue in colour and appears non-luminous. The temperature is very high ie about 1400°C .



Q2. What is calorific value of a fuel? Write any four characteristics of an ideal fuel.

Ans. Calorific value — The quantity of heat produced by complete combustion of 1 kg of a fuel is called its calorific value. It is expressed in kJ/kg .

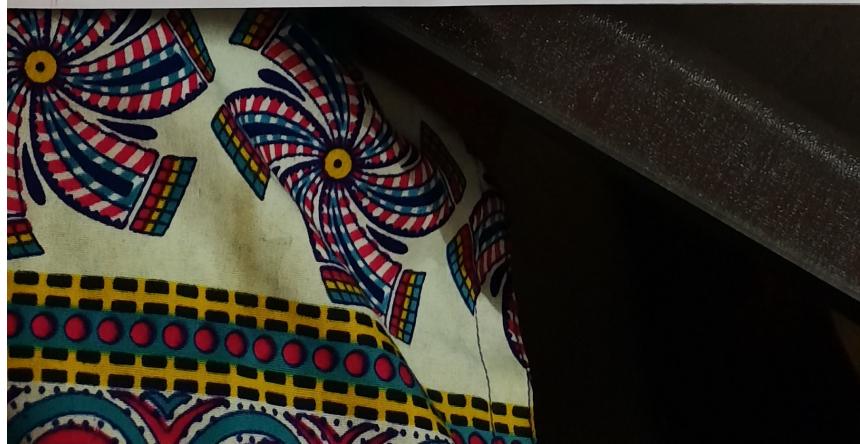
Characteristics of an ideal fuel

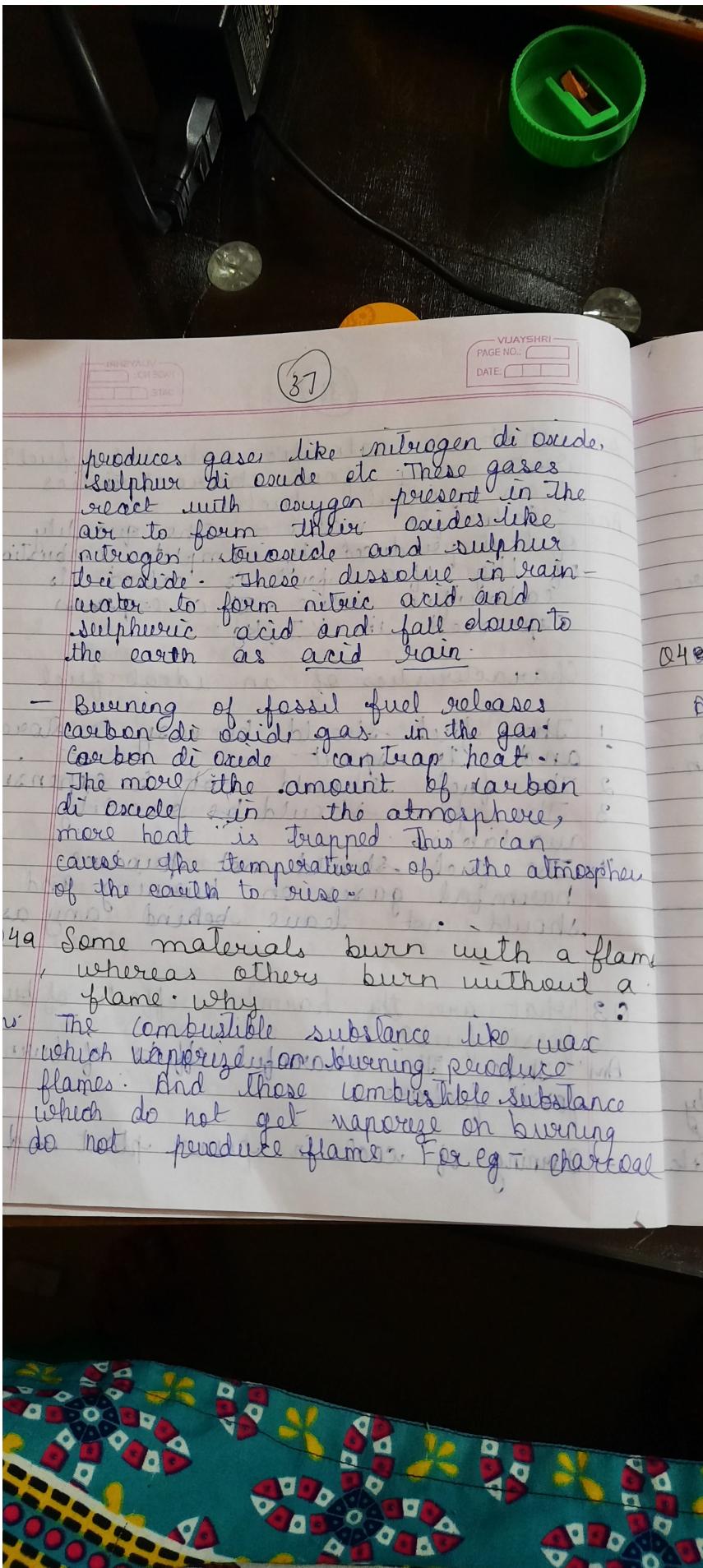
1. The fuel should be easy to store and transport.
2. The fuel should not be expensive.
3. The fuel should be readily available.
4. The fuel should not produce harmful gases on burning and should not leave behind any ash.

Q3. What are the harmful effects of burning fossil fuel?

Ans. The harmful effects of burning fossil fuel are

- Burning of coal in power plant and factories





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So it depends upon whether the substance will form vapours on burning or not

Secondly on burning if carbon present in substance burns completely, flame is produced due to reaction of oxygen with carbon.

Q4(b) Why is carbon dioxide used to extinguish fire?

Ans Carbon dioxide is a non-conductive and non-corrosive gas used to reduce the amount of oxygen available to the fire. Carbon dioxide is extracted from the atmosphere and stored at high pressure in the liquid state within a fire extinguisher.

iii. प्रतिक्रिया की तात्पर्य वाली अन्य विधियों का विवरण करें।



chapter 7

Conservation of plants and animals

I Key terms

Biosphere: Part of the earth where living organisms exist.

Deforestation: To clear forest by cutting trees.

Endangered species: Species which are facing threat of extinction.

Endemic species: Species found in a particular area.

Extinct species: Species which existed on land once, have disappeared now.

Define these terms:-

Flora - The plant life occurring in a particular region or time, generally the naturally or indigenous - native plant life. Eg trees of jamun, mango, guava etc.



Eaura - The wild animals found in a particular place or particular geographical region. Eg Tiger, leopard, antelope, sambar, chinkara etc.

Wild life sanctuaries - A sanctuary is a protected land area reserved for the conservation of wild animals, birds and plants.

Biosphere reserve - A biosphere reserve is a specified land area in which multiple use of land is permitted for preserving biodiversity.

Red Data Book - The Red Data Book contain a record of all those species of plants and animals which are under the threat of extinction or are rare and vulnerable for extinction.

Biodiversity - (Bio - life and diversity = variety).

The variety of life forms found on our planet in a particular area. Life forms includes



microorganisms, algae, fungi, plant and animals.

Endemic species: Endemic species are plant and animal species that are found in a particular geographical region and nowhere else in the world. For eg. Lemurs of Madagascar and Tortoises of Galapagos.

Deforestation: The decrease in forest areas across the world that are lost for other uses such as agriculture, cropland, urbanization or mining activities.

Global warming: A gradual increase in the overall temperature of the earth's atmosphere generally attributed to the greenhouse effect caused by increased levels of carbon dioxide, CFCs (Chlorofluoro carbon) and other pollutants.



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Global warming - The ongoing rise of the average temperature of the Earth's climate system.

Desertification - The persistent degradation of dryland ecosystems by climatic variation and human activities.

Drought - A period of abnormally dry weather sufficiently prolonged for the lack of water to cause serious hydrologic imbalance in the affected area.

Soil erosion - The displacement of the upper layer of soil, it is a form of soil degradation.

Afforestation - The process of planting trees, or sowing seeds, in a barren land devoid of any trees to create a forest.



Conservation - A careful preservation and protection of something especially planned management of a natural resource to prevent exploitation, destruction or neglect water conservation, wild life conservation.

Migration: The seasonal movement of animals in group from one habitat to another. The animals that migrate are called migratory animals.

Answer the following questions (Very short type).

1. What are the reservoirs of biodiversity called?
The reservoirs of biodiversity are called.

Name the zone of biosphere reserve where no human activities are permitted.



- Ques 1: The zone of biosphere reserve where no human activities are permitted is called core zone.
- Ques 2: What are the species which are on the verge of extinction called?
- Ans: The species which are on the verge of extinction are called endangered species.
- Ques 3: Which book contains information about threatened species?
- Ans: The Red Data Book contains information about threatened species.
- Ques 4: Name the process involved in restocking of destroyed forests by replanting new trees of the same type.
- Ques 5: The process involved in restocking of destroyed forests by replanting new trees of ~~the~~ is called Afforestation.



IV Answer the following questions
(short type)

Q1 Why does biodiversity need to be conserved?

Ans Conservation of biodiversity is essential because

- Biodiversity maintains balance in nature or balance in the ecosystem

- Wild animals and plants provide a variety of remedies

- Wild life is needed for breeding programmes in agriculture, horticulture, sericulture, apiculture, etc

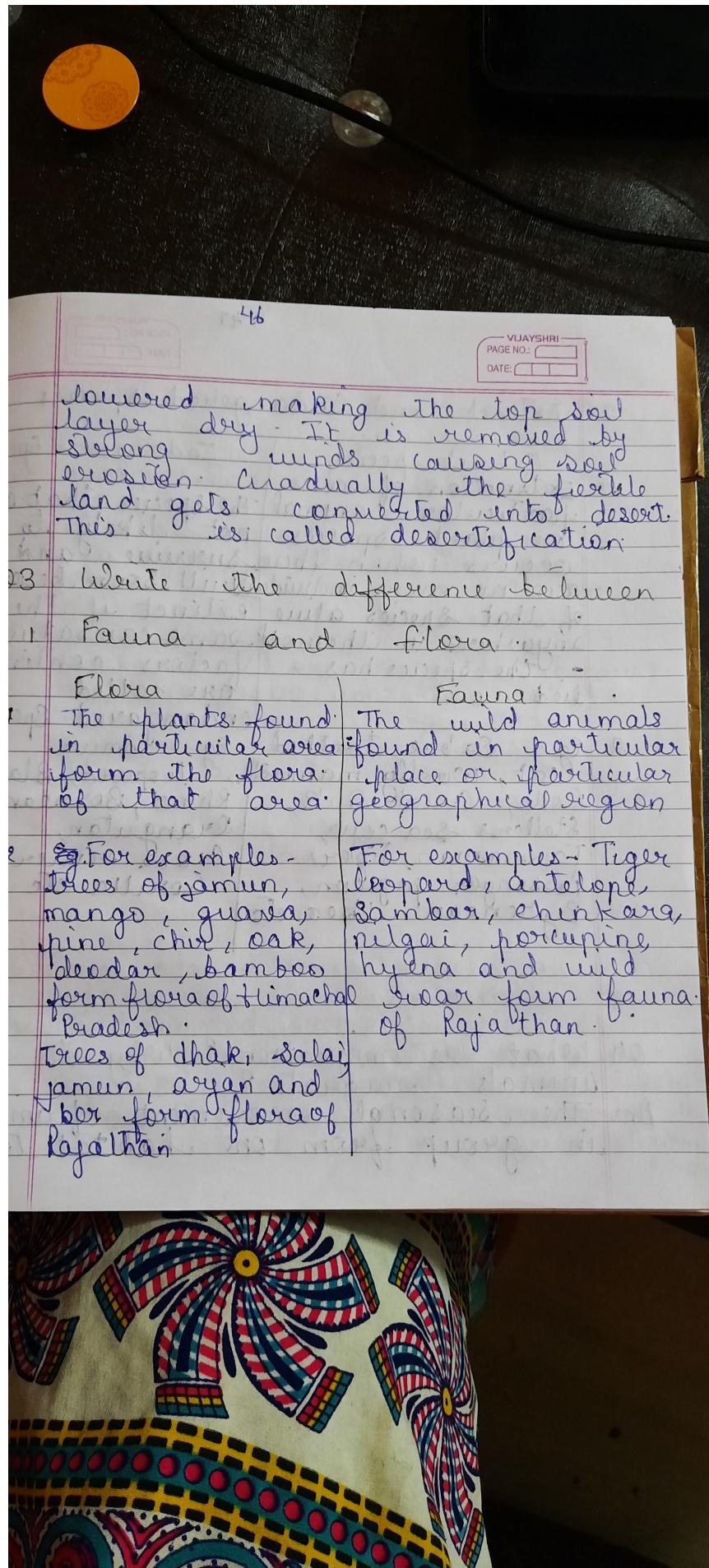
Q2

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How does deforestation lead to desertification?

The felling of trees causes change in the physical properties of soil. The water holding capacity of soil changes and level of subsoil water is





2 Extinct and Endangered species

Extinct species

1. Extinction of a particular animal or plant species occurs when there are no more individuals of that species alive anywhere in the world.
- The species has died out

Endangered species

The species that are not likely to survive and will soon become extinct if the same causative factors continue to be called endangered species.

- 2 Eg - Sabre-toothed cat, Woolly mammoth, Dodo, Great Auk, Stellers sea cow, Tasmanian tiger, Passenger pigeon, Pyrenean Ibex etc

Eg - Amur leopard, Black Rhinoceros, Bornean Orangutan, Cross river gorilla etc

- 3 What is migration? Why do animals migrate?
- 4 The seasonal movement of animals in group from one habitat to



another is called migration.

- Animals migrate to:
- escape the inhospitable winter conditions
 - find plenty of food
 - lay eggs at a warm place where they can incubate early.

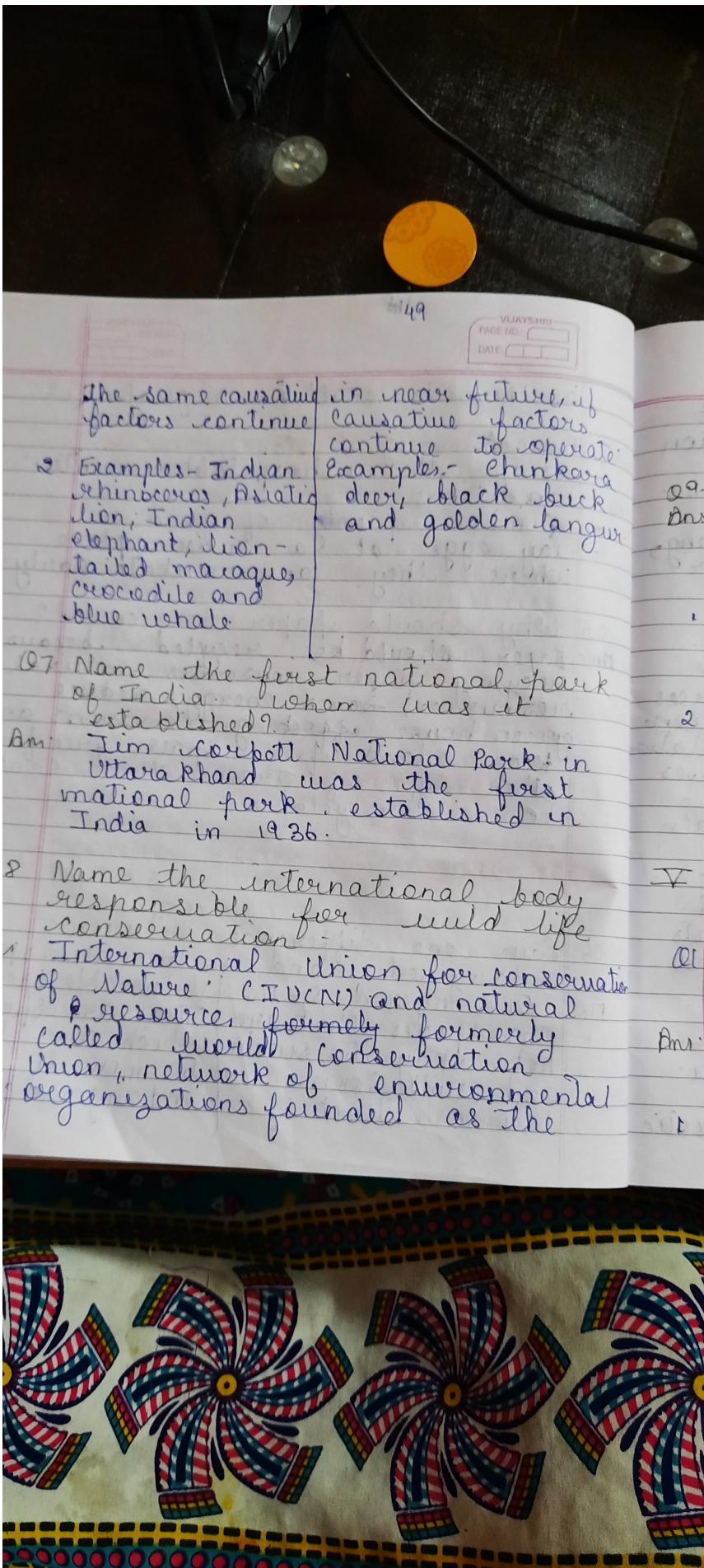
Q5 Why should paper be recycled?

Ans Paper should be recycled because recycling paper conserves natural resources, saves energy, reduce green house effect gas emissions and keep landfills space free for other types of trash that can't be recycled. Consid...

Q5 Give one difference between endangered and vulnerable species.

Ans Endangered species Vulnerable species
1. The species that are These are species not likely to become which are likely and will soon to move to become extinct if endanged category





International Union for protection of nature in ~~France~~ Switzerland.

Q. what causes desertification?

Ans: 'Climatic variation' and Human activities can be regarded as the two main causes of desertification.

Climatic variation → climate change, drought, moisture loss on a global level

2. Human activities - These include overgrazing, deforestation and removal of the natural vegetation

IV Answer the following questions (long type):

Q1 Describe the different causes responsible for the loss of biodiversity.

Ans: The different causes responsible for the loss of biodiversity are:

Habitat loss due to increase



1. Increase in human population - Great increase in human population is responsible for the rapid decline of biodiversity because more and more land is needed for agriculture, housing, for making roads and for constructing dams, bridges, power houses and industries.
2. Deforestation and overgrazing → Indiscriminate cutting of trees by man causes deforestation. Overgrazing by increased populations of cattle and sheep causes shrinkage of grasslands and loss of habitat of wild animals.
3. Pollution - Air and water get polluted with insecticides used in agriculture, toxic elements released from industries and petroleum products
4. Introduction of exotic species - The species introduced into a new locality from some other area is called an exotic



- Species. It competes with the species already existing in that area and may cause extinction of some native species.
- Q. 5. Climatic changes:- Human activities are causing climatic changes in the temperature and rainfall pattern and also responsible for global warming and melting of glaciers.
- Q. 6. Human greed:- International Trade in wildlife products has threatened the existence of tigers, bears, foxes, elephants, crocodiles etc.
- Q. 7. What are the harmful effects of destruction of forests?
- A. The harmful effects of destruction of forests are:
- 1. Global warming - The level of carbon dioxide in the atmosphere increase due to deforestation.



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- 2 Change in climate :- Deforestation increases temperature, reduce rainfall and increases wind velocity.
 - 3 Desertification :- The felling of trees causes change in the physical property of soil. The fertile land get converted into desert.
 - 4 Drought :- Disturbed water cycle, reduced rains and lowering of water table due to the removal of trees causes frequent droughts.
 - 5 Soil erosion and flood :- Deforestation leads to decreased water holding capacity of the soil that consequently reduces infiltration of water into the ground. So there are frequent flood and the fertile top soil is washed away.
 - 6 Loss of wild life :- Deforestation leads to loss of wild life & plants and natural habitats of wild animals and depletion of food sources.



Q3 What are the objectives of wild life protection Act?

Ans. The objectives of wild life protection Act are:

- Prohibition of hunting of listed threatened species.
- Setting up and management of national parks, sanctuaries and biosphere reserves.
- Control and management of captive breeding.
- Protection of specific plant and natural habitat of animals.

Q4 Write a short note on Project Tiger and Gir Lion Project.

Project Tiger - Project Tiger was launched in 1973 to save tiger from poaching. Initially 9 tiger reserves were established in 1973-74. Now the total number of tiger reserves is 50. The total area covered under these projects is 71027.10 km.



