Q. No. 2 Part (i) **PLASMA:** (i) سوال نمبر 2 جز

plasma is the liquid part of Blood Constitude in 55% of Blood by volume. It is very important for Blood Circulation. Because, it Contain water protein & Organic & inorganic Substances



IMPORTANCE IN CIRCULATION:

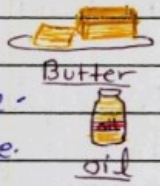
plasma play vital role in Blood Circulation Because, it Contain water which lead toward Blood ~~Circu~~ Circulation. It transport inorganic iron. & transport hormones which further lead to Circulation. & without Blood circulation life become, no life. Plasma carry antibodies that kill bacterias & Safe life.

Q. No. 2 Part (ii) **LIPID ROLE IN LIFE:** (ii) سوال نمبر 2 جز

- All fats are Collectively Called "lipids."

Importance:

lipids Such as: Butter, ghee, oil etc. Can warm or maintain the body temperature. It is very beneficial for dry Skin People. Because, it work as a moisterizer.



In winter:

In winter, Most of the people Consume fats to make their body warm it heal help them & Safe the from Seasonal Cough, fever etc.

Under weight:

Under weight people Should take fats it make them Strong. Because, fats have double energy.

Q. No. 2 Part (iii) **GENETIC ENGINEERING:** (iii) سوال نمبر 2 جز

Defination:- The ~~Sty~~ Study of genes is Called Genetic engineering.

Agriculture:

GMO (Genetically modify organism):

→ Created Genetically modified Crop due to GMO.

prevention:-

It prevent plant from plants dieases. Crops through Genetically Engineering

High yeild Crops:

It provide high yeild Crops that has more ~~nutrian~~ production. like: rice, ~~potatos~~

Q. No. 2 Part (iv) **FIRST AID** (iv) سوال نمبر 2 جز

First aid is a instant medication Before, professional treatments & Hospitilization.

Principles: There are three principles of First aid:-

- **Restoration of Airway:** mean Checking the Breath of patient & any way to provide air to patient.
- **Restoration of Breathing:-** mean Checking the Breath & Provide CPR at Oxygen to the patient.
- **Restoration of Circulation:-** mean make Sure that the Blood is Circulating or not if not rub hand & foot ~~for~~ it may fix Blood Circulation.

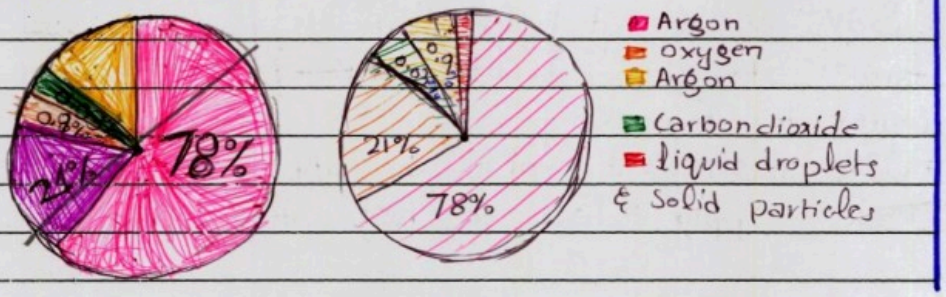
Before, Ambulance these principal Can Sate life.

Q. No. 2 Part (v) **COMPOSITION OF ATMOSPHERE:** سوال نمبر 2 جز (v)

Atmosphere Consist of many Gases:

- 78% Nitrogen
- 21% Oxygen
- 0.03% Carbondioxide.
- 0.9% Argon.
- & other liquid particle & Solid droplets.

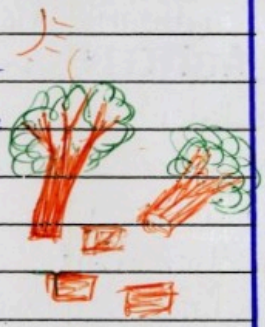
Pie Chart:



Q. No. 2 Part (vi) **AFFECT OF DEFORESTATION:** سوال نمبر 2 جز (vi)

Deforestation mean Cutting down of trees. there are Some effects of deforestation:

- **Global warming:-** It increase the amount of Carbondioxide which trap heat & produce Global warming.
- **Rain pattern:** It disturb rain pattern which decrease clean water.
- **Air Pollution:** It produce Air pollution with is responsible for ~~repir~~ respiratory dieases. & asthema.
- **Nature:** It also disturb the nature & natural Beauty. It decrease or destroy ~~d~~ natural fertilizers.

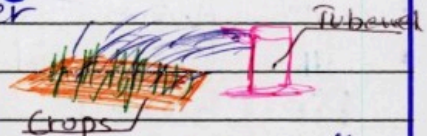


Q. No. 2 Part (vii) **ROLE OF TUBEWELL:** (vii) سوال نمبر 2 جز

Tubewell played vital role in agriculture mechanization.

Source of water Supply:

It is a major Source of water Supply for agriculture. & provide water efficiently tally



Save energy: it help farmer Before, tubewell farmer Struggle effort to Supple water to their Crops.

Save money: it replace the artificial expensive water Supply & lead to Cheap water Supply

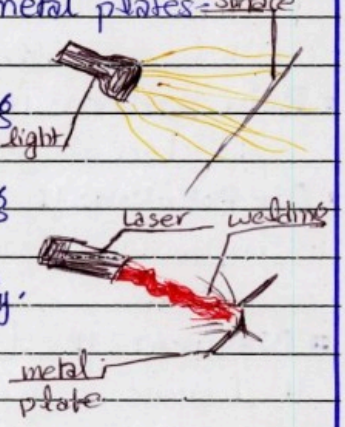
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Q. No. 2 Part (viii) **LASER DIFFER LIGHT** (viii) سوال نمبر 2 جز

Ordinary light is differ from laser Because ordinary light don't has these abilities.

ABILITIES:-

- laser is use in Cutting & welding metal plates
- guiding aircraft in Bad weather.
- Cutting body parts with out touching other parts.
- laser is use in Storing & reading information of Computer Cds.
- Have one direction light Amplify.
- in Single pure Colour.



Q. No. 2 Part (ix) **HOLOGRAPH 3D:** (ix) سوال نمبر 2 جز

Holograph is a newly tecnique. it provide 3 dimensional image of an Object through laser.

Uses:

ENTERTAINMENT:

it is use to add Special effects in movies.

Archetecture:

Architecture use to make Stucture of Buildings & malls.

Projects/ 3DModels:

In School, to Show student a project or 3D Model for Better understanding.

Q. No. 2 Part (x) **ULTRASOUND PREFER X-ray** (x) سوال نمبر 2 جز

Ultrasound is a imaging technique use to See the image of internal body parts. many pe prefer Ultrasound Because,

- it Show the Clearer image than x-ray.
- it Show image of less dense material while x-ray Could not.
- Ultrasound ~~harm~~ have harmful radiations.
- & not have after effect.
- Ultrasound image is efficient than x-rays.
- Give accurate information than x-ray.

=Because, of this benefit & many people prefer Ultrasound more.

Q. No. 2 Part (xi) **ECO-SYSTEM:-** (xi) سوال نمبر 2 جز

Eco-System is a ~~st~~ System where, animals, humans & plants live together for there Survival. & provide Benefits to each other.

Importance:-

Eco-System is important Because, no one can live alone except God. every one depends each other to fullfill their needs.

Explaination:

~~As~~ Eco-System is a wide System & on one live without this System.

Q. No. 2 Part (xii) **PLASTIC RECYCLING** (xii) سوال نمبر 2 جز

Plastic Recycling mai mean Collecting Plastic & Change the plastic into new material that is use full.

Importance:-

plastic recycling is very important it reduce plastic as well as pollution.

Converted into:-

Converted into decoration ~~peaces~~ pieces.. & other related items

Save wood:-

The product like Chair & table that is made ~~in~~ from wood can be replace by plastic & Save our trees.

(Section C)

Q. No. 3 (Page 1) **HUMAN BLOOD** سوال نمبر 3 (صفحہ 1)

Blood is a main transpoting fluid of the Body. It has 2 main parts.

plasma - **55% by volume**
different Blood Cells.. **45% by volume**

DIFFERENT BLOOD CELLS:

Human Blood Consist of Blood Cells 45% by Volume. these blood Cells are of 3 types:

- Red Blood Cells (Erthrocytes)
- white Blood Cells (leukocytes)
- platelets. (thromocytes)

RED BLOOD CELLS:

Red Blood Cells are most numerous. One Cubic millimeter of Blood have 5 million above Red Blood Cell.

Hemoglobin:

Red Blood Cells have a protein called Hemoglobin. Hemoglobin give red Colour to the Red Blood Cell.

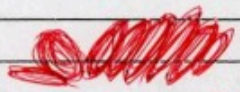
Average life:-

The average life of Red Blood Cell is 120 day. After, 120 day it destroy themself.

Q. No. 3 (Page 2) **FOUND IN:** سوال نمبر 3 (صفحہ 2)

Red Blood Cell is found in Red Bone marrow ribs, Beast etc.

Diagram:-



Red Blood Cells.
(Erthrocytes)

WHITE BLOOD CELLS.

White Blood Cell is Colorless & irregular in Shape. one Cubic millimeter of pf Blood Contain 7000-8000 & White Blood Cells.

IMMUNITY:

White Blood Cell Build & Support Immunity. It has prominent nucleus in them.

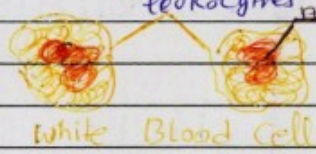
Kill the Bacteria:

It Kill the bacteria in two ways.

- **Digest Bacteria:**
  White Blood Cell first digest bacteria it Self & than kill Bacteria or Safe the patient from dieases like: T.B (Tuberculosis)

- **Egulf:**
  Egulf & directly Kill the Bacteria.

Q. No. 3 (Page 3) **Diagram:** سوال نمبر 3 (صفحہ 3)



~~Platlat~~ Platlets:

platlets are much smaller than ~~bacteria~~ Red Blood Cell & white Blood Cells.

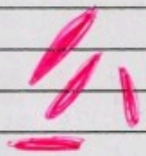
Nucleus:

~~They have prominents nucleus in them.~~

Charactershics:

It help in Blood cloting. It ensure that Blood Clot properly & not.

Diagram:



Q. No. 4 (Page 1) سوال نمبر 4 (صفحہ 1)

Fat Soluble Vitamins

Vitamins:-

Our Body need ~~food~~ not only food But, also Some other elements these elements are Called vitamins.

Fat Soluble:-

Vitamin A, K, D, E are fat Soluble.

Vitamin A:

Vitamin is important particularly for Childrens it imune vision & Help in metabolism growth rate increasing. Its deficiency Cause: night blindness. It improve skin health also.

Found:-

It is found in friuts, vegetable, beetroot. ~~turpit~~ nut & Oranges ~~etc~~. Carrots etc.

Vitamin D:-

Vitamin D is a vitamin that is important for Bone, ~~th~~ teeth. It Strong our Bone & make ~~use~~ us physically Strong & powerful.

In Sunlight:-

our body Synthesized vitamin D in Sunlight.

Q. No. 4 (Page 2) سوال نمبر 4 (صفحہ 2)

Found:-
It is majorally found in Orange & ~~vegent~~ vegetable & peas & pulses etc.

Vitamin E:
Vitamin e is a vital vitamin it help in Consuming Calcium & phosphurous..

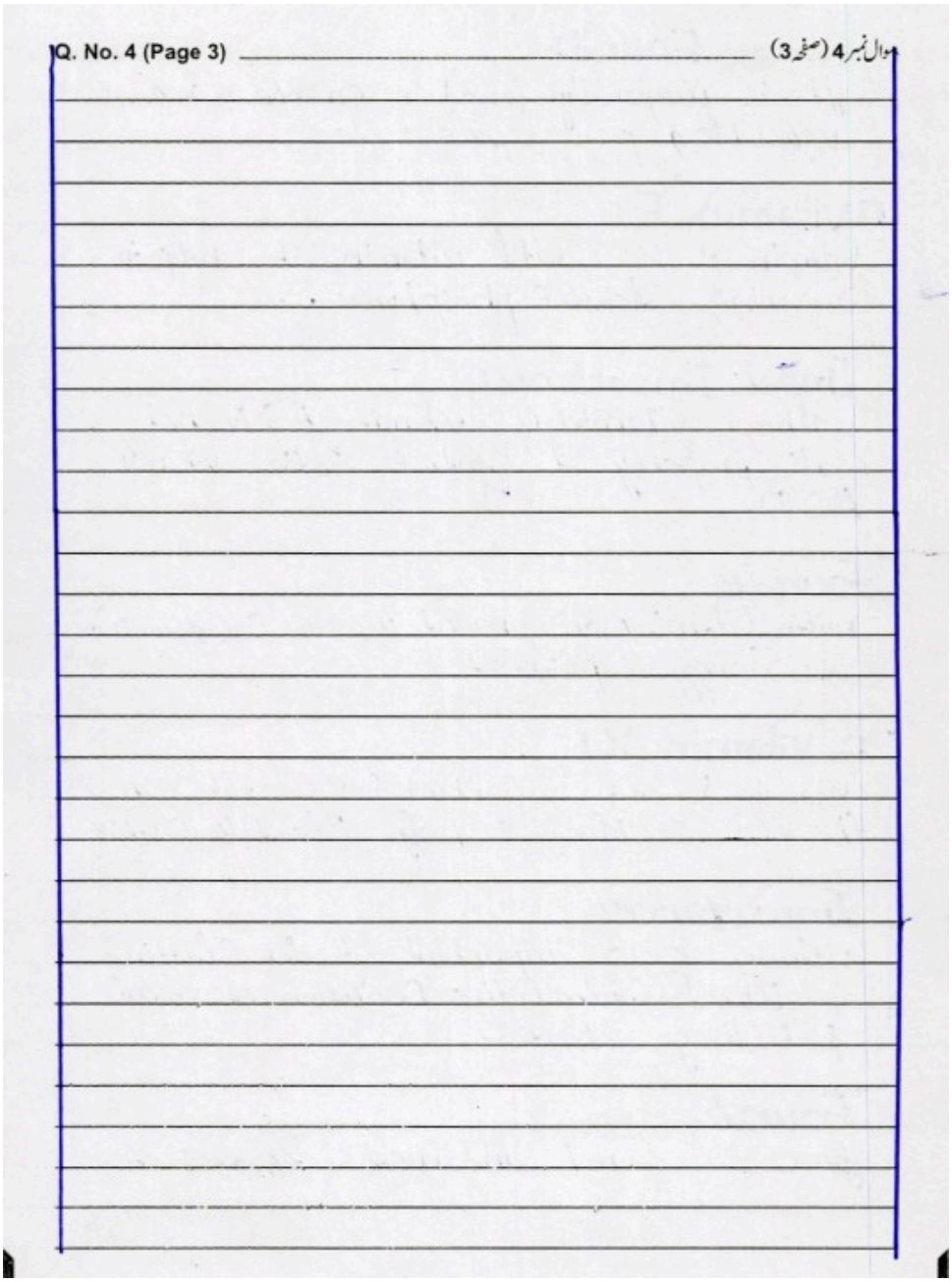
Impot Importance:
without vitamin E vitamin A & D not work properly it Control Both vitamin A & D

Found:-
~~vitan~~ vitamins are present in oil & Capsules & energy suplimente.

Vitamin K:
vitamin is ~~of~~ important Because, it control the flow of Blood & help Blood in clotting.

Importance:
vitamin k is important it for Clotting of Blood. Control the Coglution of Blood & Kidney activities.

Found:-
It is ~~o~~ found in meat, egg & fish etc.


Q. No. 4 (Page 3)
سوال نمبر 4 (صفحہ 3)

Q. No. 5 (Page 1) سوال نمبر 5 (صفحہ 1)

MRI

MRI Stands for magnetic Resonance Imaging technique.

IMPORTANCE:-

It is an imaging technique that is Use to See the image of the Body. by Scanning the body.

Radiations:-

MRI use NMR Signal & Have magnetic radiations. that ~~no~~ radiation connect with any metal material that is present inside the ~~mash~~ machine. therefore, doctor not allow to take ~~no~~ any metal thing inside the machine

Main function:-

The main function of MRI is to see the image of the body parts ~~Affe~~ Before Surgery. to see the problem & Diagnose diseases perfectally.

Surgery:-

Help doctor by telling them about Surgery & understanding about the procedure of Surgery

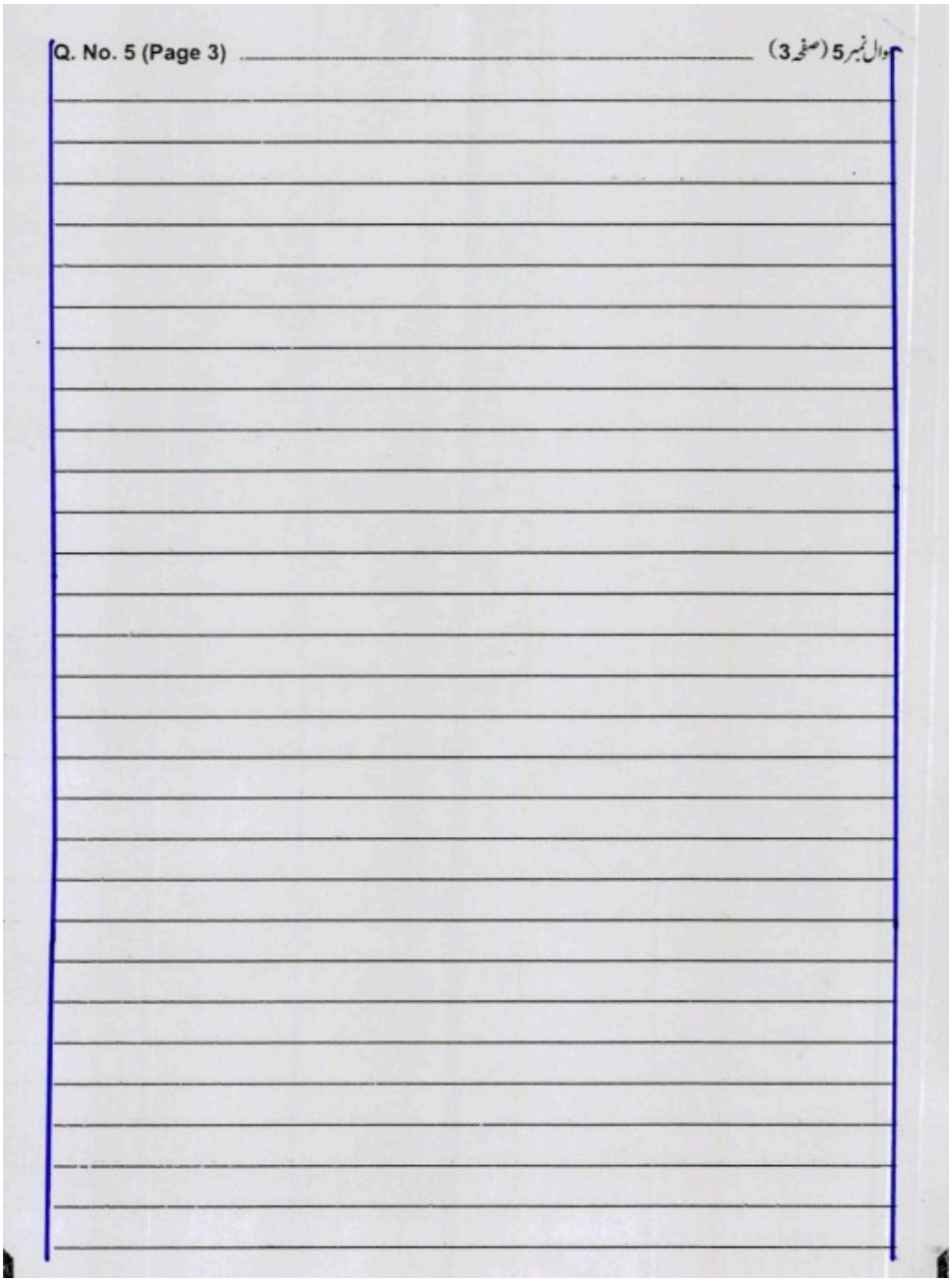
Q. No. 5 (Page 2) سوال نمبر 5 (صفحہ 2)

Advantage:-

- Show clear image of Body parts like kinley, Stomach, lungs & Heart
- It give detail about any part of Body.
- Guidline for doctor.

Disadvantage:-

- take more time.
- It is et most expensive.


Q. No. 5 (Page 3)
سوال نمبر 5 (صفحہ 3)