

Qa) Define network and its types.

Networking

"Networking is a computers connection which connect computers to cooperate and transfer data."

Networking is a set of computers networks. In fact, computer networking is a connection of multiple sources of computers that help in transferring and sharing data. Thus, networking is a computers cooperation.

Types of networking

allowing are

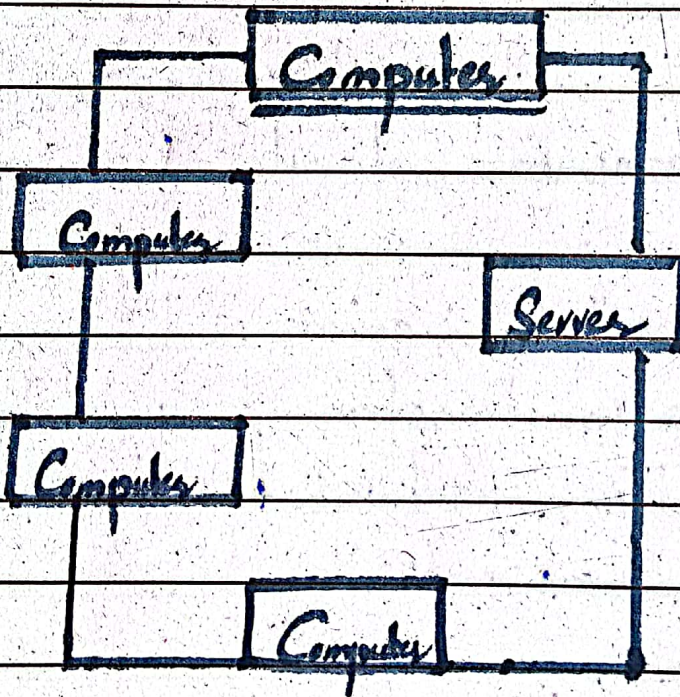
types:



1) Local Area Network (LAN)

"LAN is a short range of network"

LAN is used in short area or a smaller area.
For example, offices, homes, schools etc



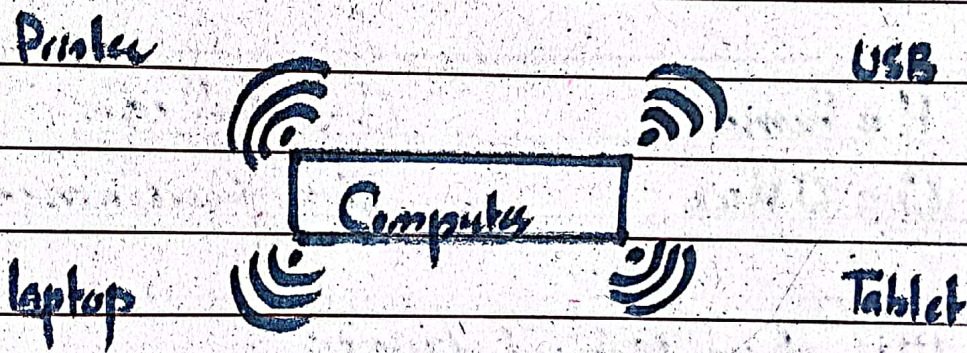
• Local Area Networks

(ii) Personal Area Network (PAN)

"PAN is a personal computer."

PAN is used for one's personal use.

e.g., laptop, tablet, USB, etc

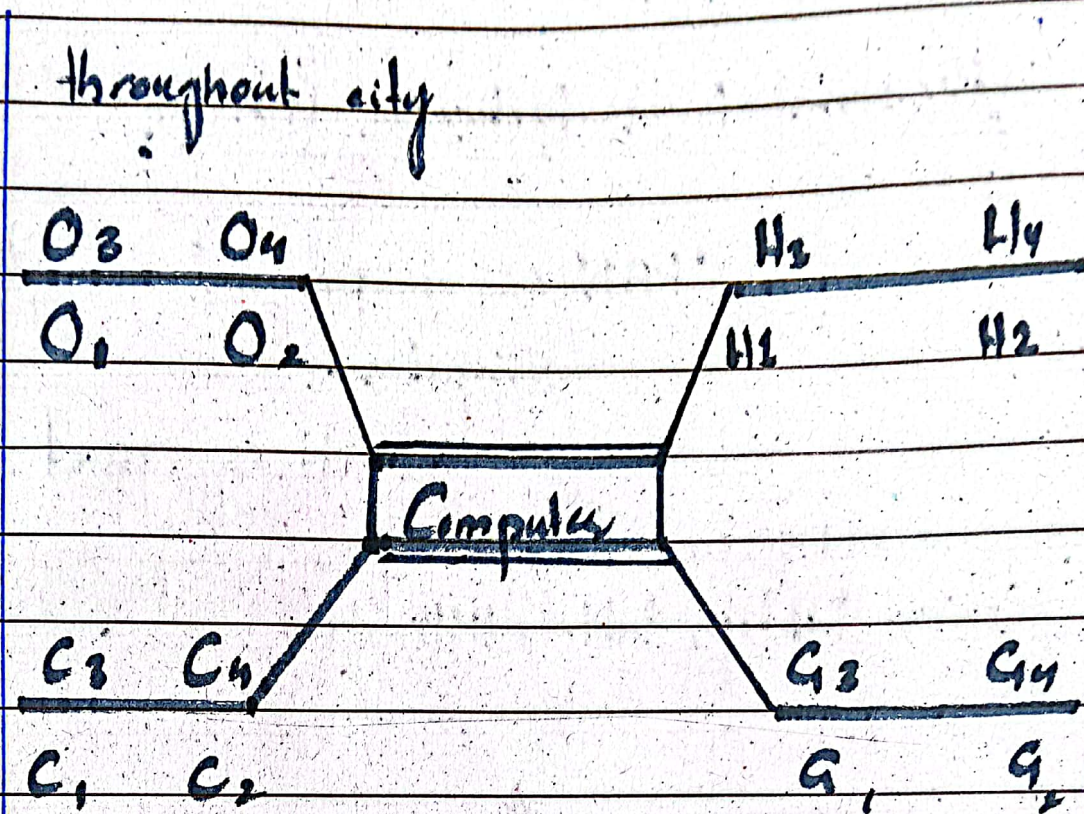


(iii) Metropolitan Area Network (MAN)

"MAN is smaller than WAN and larger than LAN."

MAN is used for medium or middle range computer.

For example, wireless connections



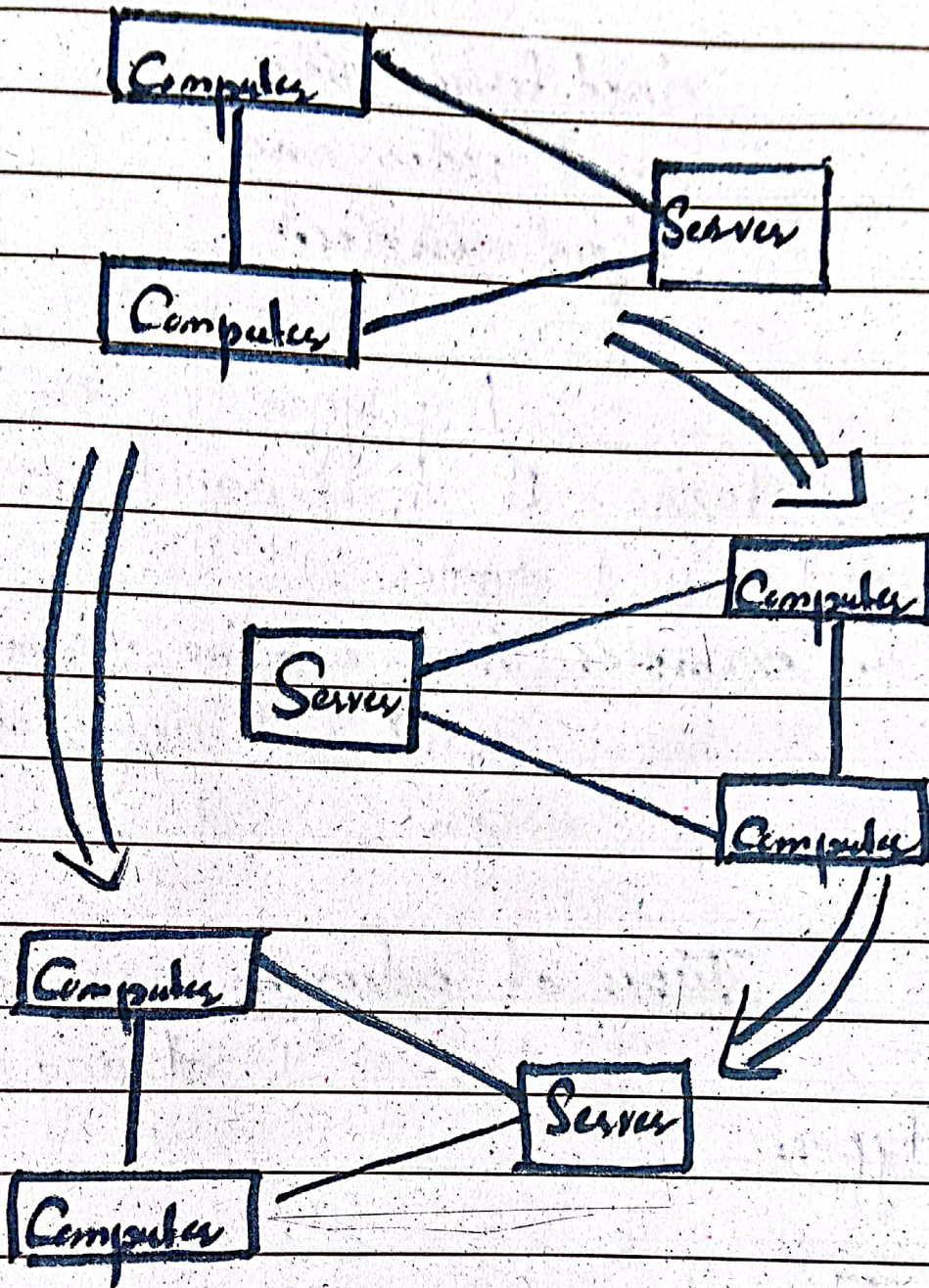
H = Home C = College
 O = Office G = Government

i.) Wide Area Network (WAN)

'WAN is used for wide range of areas.'

WAN is used for wider area.

For example: internet.



Q 6) Describe Polygon. Also describe its types.

Polygon

"Polygon is a regular,

closed figure with
equal sides and
equal angles.

A polygon is a closed figure. It has equal sides and equal angles.

For example: Triangle - the minimum sided and angled polygon.

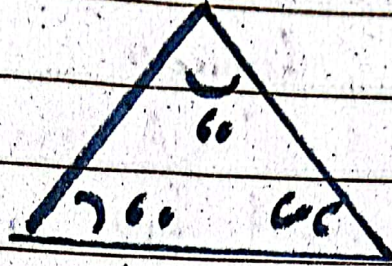
Types of polygon

following are
types:

i) Triangle

"A triangle is three dimensional figure."

A triangle has three sides and three angle. It has sum of 180° angles.

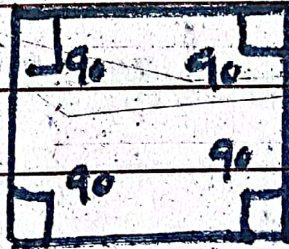


• Triangle = 360 degrees

ii) Square

"A square is a four dimensional figure."

A square has four angles and four sides.



• Square = 360° degrees

iii) Pentagon

"A pentagon is a

five dimensional
figures.

A pentagon has
five sides and five angles.

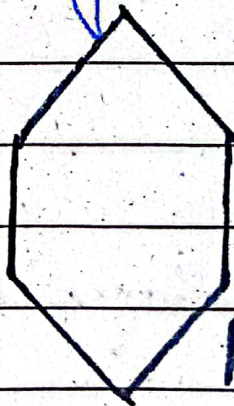


• pentagon = 540° degrees

(v) Hexagon

"A hexagon is a
six dimensional
figures"

A hexagon is
a six dimensional having six sides
and six angles.

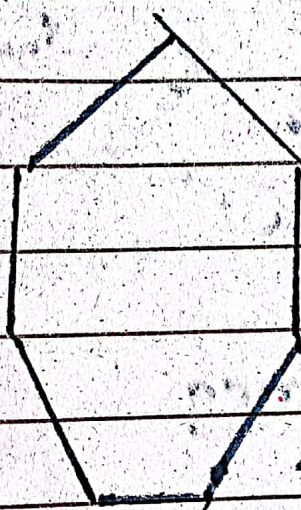


hexagon = 720° degrees

v) Heptagon

"A heptagon has seven dimensions."

A heptagon is a seven dimensional figure. It has seven sides and seven angles.



• heptagon

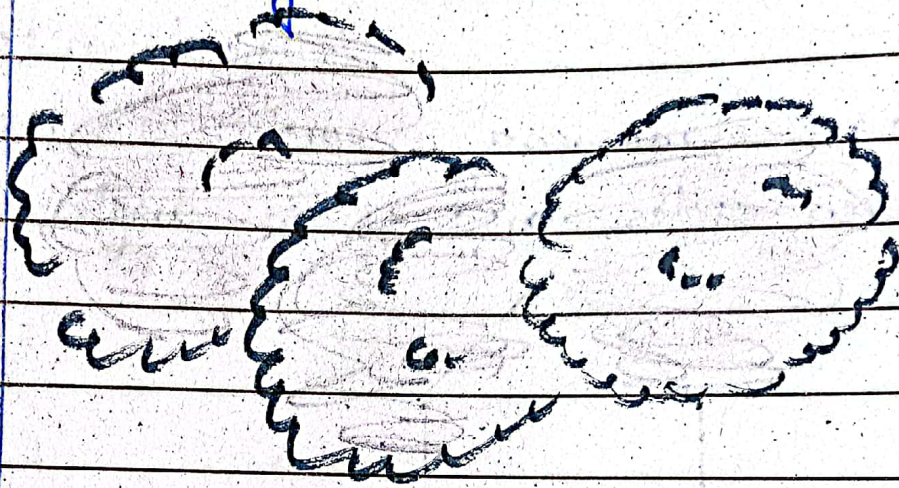
Therefore, above discussed figures are types of polygon.

Qc) Describe smog. How it is formed?

Smog

"Smog is combination of smoke and fog."

Smoke is combination of smoke and fog. In fact, joint mixture of smoke and fog is known as smog.



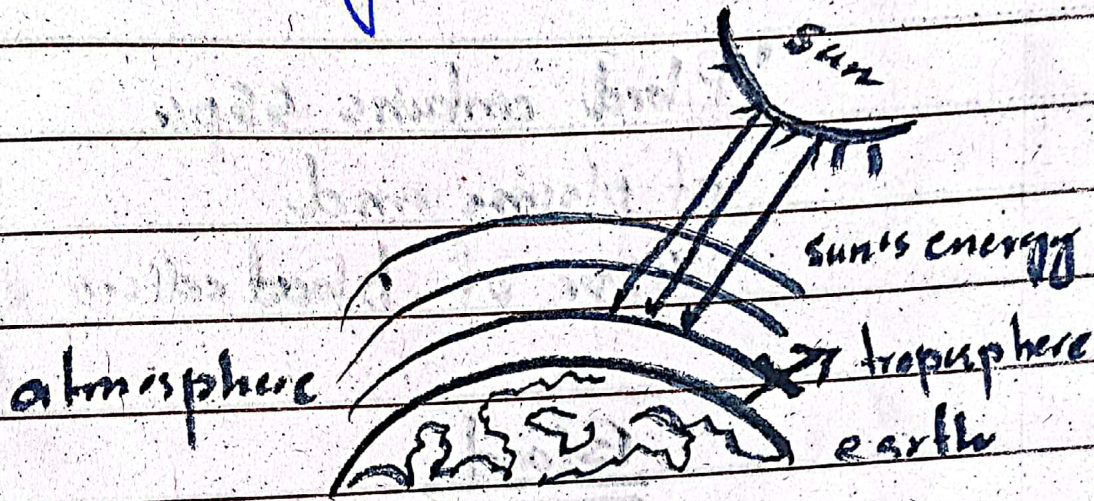
• Smog

Formation of smog

"Smog is the atmospheric pollution."

Smog is the atmospheric pollution. When gases in the layer, troposphere mix up and then react to form

a fuel. With the assistance of sunlight, it results as smog.



• atmosphere
Thus, smog is formed as above discussed process.

Q d) Write a note on 'blood'.

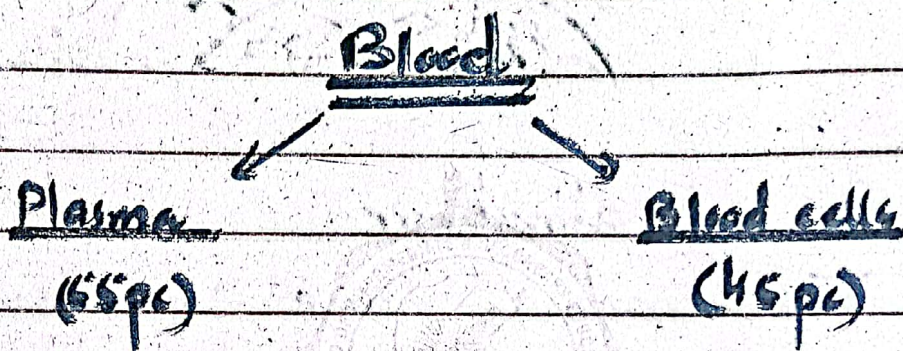
Blood

"Blood is a reddish liquid-fluid."

Blood is a red-colored liquid. In fact, it is a

combination of plasma and blood cells.

"Blood contains 55pc of plasma and 45pc of blood cells."



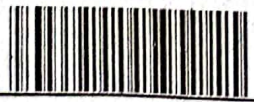
• Detail of combination of blood

Combination of blood is as follows:

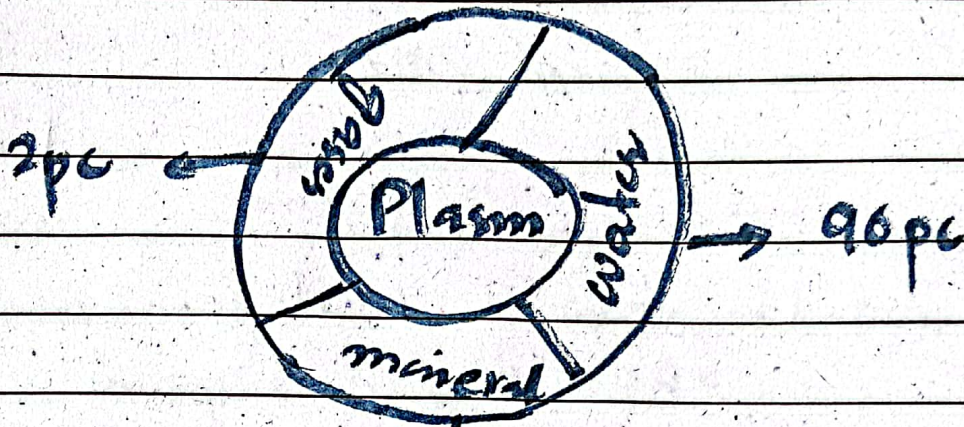
i) Plasma of blood

"Plasma is a liquid part of blood."

Plasma is a liquid part of blood. It contains

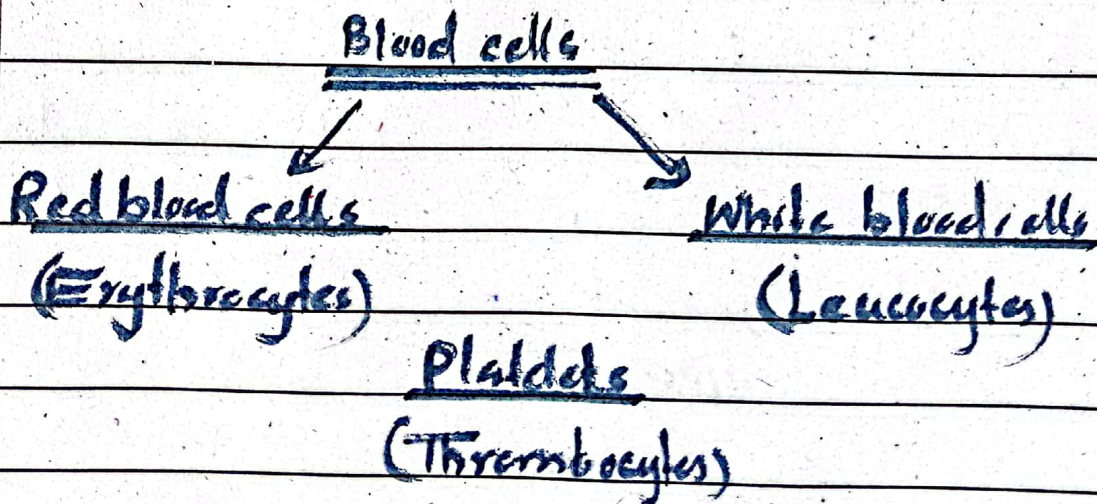


90pc of water, 8pc of minerals,
and 2pc of gases.



Blood cells

Blood cells are of
three types:



i) Red Blood Cells (RBCs)

"RBCs are red colored cells."

RBCs are red colored. These are oval ^{biconcave} in shape and has life span of 120 days.

"RBCs help in transport of gases such as oxygen."

i.e., haemoglobin

ii) White Blood Cells (WBCs)

"WBCs are colorless cells."

WBCs are colorless. These are oval in shape and has life span of one week.

"WBCs defend the body."

i.e., leucocytes



iii)

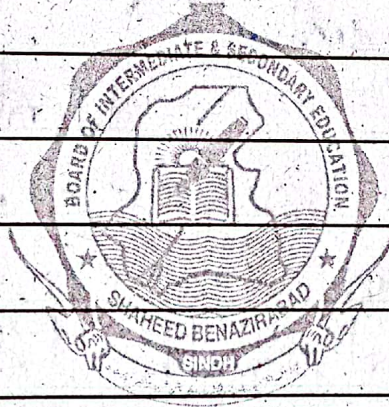
Platelets

"Platelets are also colorless cells."

Platelets are colorless cells. These are circular in shape and has life span of months to years.

"Platelets help in blood clotting."

Therefore, above is detailed note on bloods.





Q.1) What do you know about mental ability scales? Differentiate between Aptitude and Intelligence.

Mental Ability Scales

'Mental ability scales use to measure memorial ability of individuals.'

Mental ability scales are measurement scales. These scales are used to measure mentality and intelligence capacity of individuals.

Difference between aptitude and intelligence

Following is comparison:



Comparison

Aptitude

Intelligence

i)

Meaning

Ability is one's intelligence.

Intelligence quotient is comparison of individuals' intelligence.

ii)

Focus

Aptitude has a single focus of only one person's intellect.

Intelligence is a pluralism focus.

iii)

Factors affect

Age of a person affects.

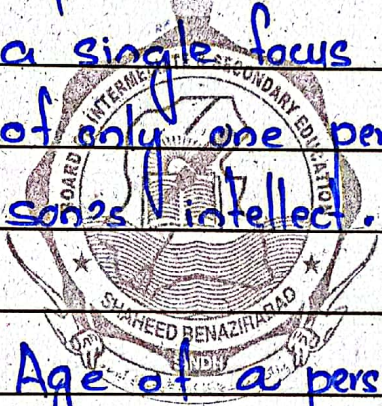
Age does not matter.

iv)

Achievements

It is highly predictive of job performance.

It is moderately predictive of job performance.





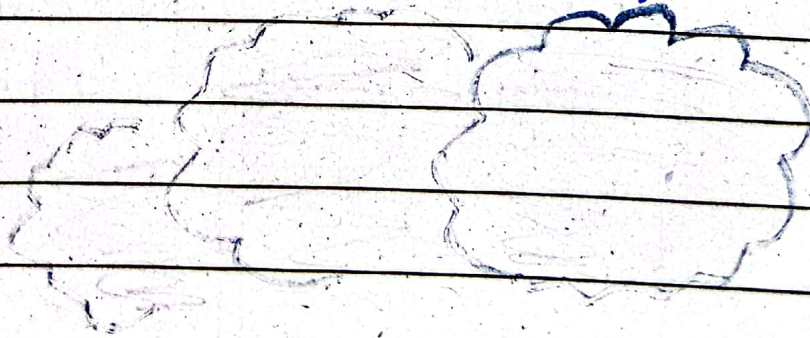
Qb) Describe smog. Differentiate between smog and fog.

Smog

'Smog is the atmospheric pollution which is combination of smoke and fog.'

Smog is the atmospheric pollution. When gases in the troposphere reacts with fuels, and with the assistance of sun's energy, smog - the atmospheric pollution is formed.

Smog = smoke + fog



Difference between smog and fog

Following is comparison:

<u>Comparison</u>	<u>Smog</u>	<u>Fog</u>
i) <u>Meaning</u>	Smog is a combination of smoke and fog.	Fog is droplets of water.
ii) <u>Nature</u>	Smog is the atmospheric pollution.	Fog is condensation.
iii) <u>Affect</u>	Smog causes health hazardous such as eye irritation, asthma, chest pain etc.	Fog is not similar to fog - as health hazardous.
iv) <u>Nature of process</u>	It is a <u>natural</u> man-made process.	It is a natural process.

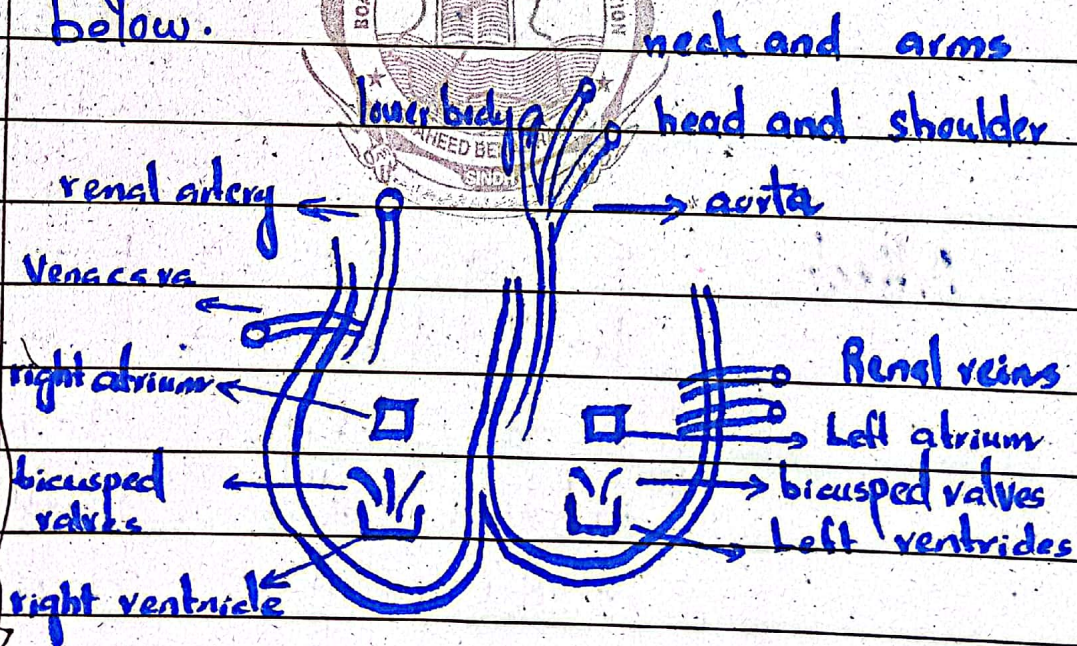


Q: Describe circulation of blood.

Blood circulation

Circulation of blood is transportation of gases within the body.

Blood circulation is transportation of gases within human body. In fact, heart is a chief organ of circulation of blood as below.



Right side

Left side

• Structure of heart

i) Vena cava

Vena cava carries deoxygenated blood to right atrium.

ii) Right atrium

In right atrium, 'contraction' and 'relaxation' occur to produce sound as 'lub' and 'dub'.

iii) Tricuspid valves

Tricuspid valves prevent backward flow of blood.

iv) Right ventricle

Blood moves in right ventricle.

v) Renal artery

Renal artery carries deoxygenated blood to lungs for oxygenation.

vi)

Renal veins

Renal veins carry oxygenated blood from lungs.

vii)

Left atrium

Left atrium further passes oxygenated blood.

viii)

Bicuspid valves

Like tricuspid, bicuspid valves also prevent backward flow of blood.

ix)

Left ventricle

Blood then moves into left ventricle.

x)

Aorta

Aorta is mainly responsible for transport of blood into the whole body.



Q d) Describe elements of weather and climate.

Weather

"Weather is a change in the atmospheric condition."

Weather is a change in the atmosphere. In fact, it is a short term change.

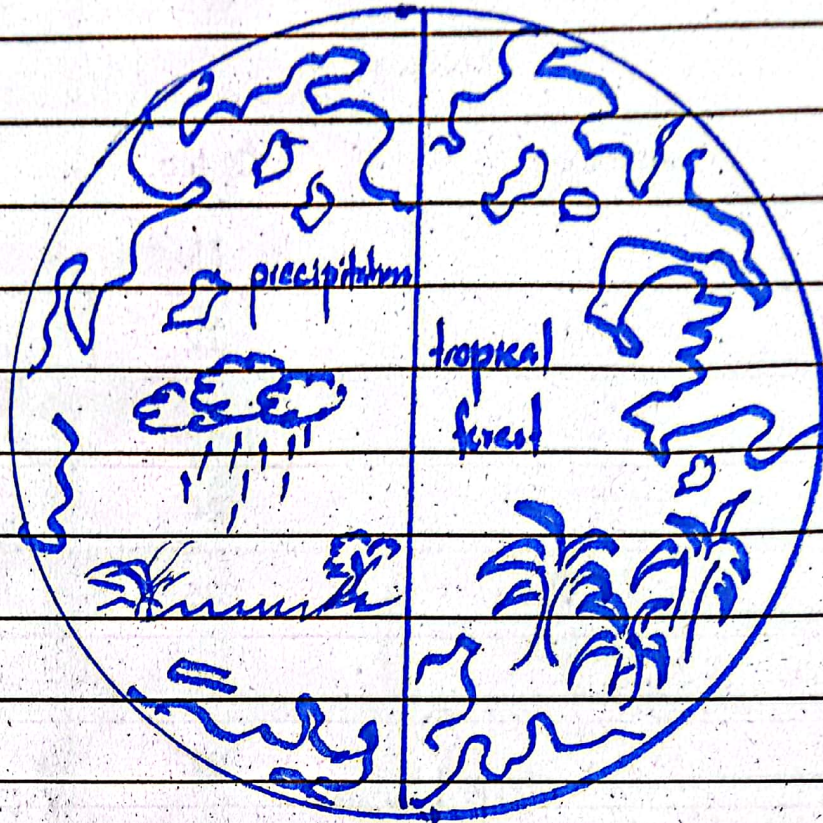
For example, humidity, wind, precipitation etc

Climate

"Climate is a weather of a particular place."

Climate is a weather of any region. In fact it is a long term - condition.

For example, tropical forests



• Weather

• Climate

Elements of weather and climate

Following are elements:

i) Temperature

Temperature is responsible for 'hotness' and 'coldness'.

ii) Atmospheric pressure (air pressure)

Atmospheric pre-

ssure is pressure of wind on the earth.

iii) Wind direction and speed

Wind is move-
nts of air on the planet.

iv) Humidity of air

Humidity is moisture
of air condition.

v) Precipitation

Precipitation is any
kind of raining on the earth.

