Part II
Section A

Q. No. 2.

a. Distinguish the following terms

i) RAM and ROM

RAM:
Random Access Memory (RAM) is a volatile memory. In RAM we can read, write and edit the data easily. It is a Permanent memory unit.

ROM:
Read Only Memory (ROM), is a non-volatile memory. In Rom we can only read but cannot write anything. It is non-Permanent memory unit.

ii) Network and Internet.

Network:
The combination of multiple devices or connections is known as the network. It includes different linkage among the systems.

Internet:
International Network (Internet) is

the formation of many networks
in International community. It
links the individuals globally.

iii) GPS and GIS

GPS:
Global Positioning System (GPS) is
used to detect the position of
anything in the world through
space as satellites.

GIS:
Global Information System (GIS)
it informs about the keen details
required of anything in this
world through censors.

iv) Byte and Nibble.

Byte:
Combination of two bits is
called a byte. It holds 8 bits
in it in binary language.

Nibble:
16-bits when combined so it
makes a 1-nibble, in the
binary language. ~~And~~ It
contains only two digits
0's and 1's.

v. Natural satellite and Artificial Satellite

Natural Satellite:

Moon is said to be the natural Satellite in the space. It shows the positions
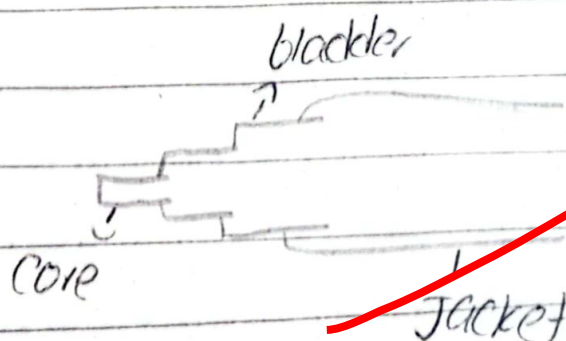~~Positing~~ and changes occuring in the space.

Artificial Satellite:

Man-made or Artificial satellite are sent in space for the detection and information of world to the specific area.

b. Write a note on optical Fibers.

Answer:

Optical Fibers are the mechanisms used to transfer data or information over longer distances within a short period of time. These fibers are the latest technologies used for transmission of data.

cladder

Core

Jacket

c. Distinguish water soluble and fat soluble vitamis by giving brief account of all the vitamins

Answer:-

VITAMINS:

~~Enzymem~~ Enzymes which are used for the speeding up the metabolic process in the human body are vitamins.

Fat soluble vitamins:

Fat soluble vitamins are long termed vitamins and stays up to 6 months in the human body.

Vitamin A = comes from green vegetables.

Vitamin D = very good source of sun light.

Vitamin E = Green vegetables and meat.

vitamin K = comes from intake of vegetibles and beans

WATER SOLUBLE Vitamins:

These ~~ti~~vitamins does not stays in the human body for any longer term. These enter into the blood stream.

Vitamin B = Source are green vegetables beans and meat.

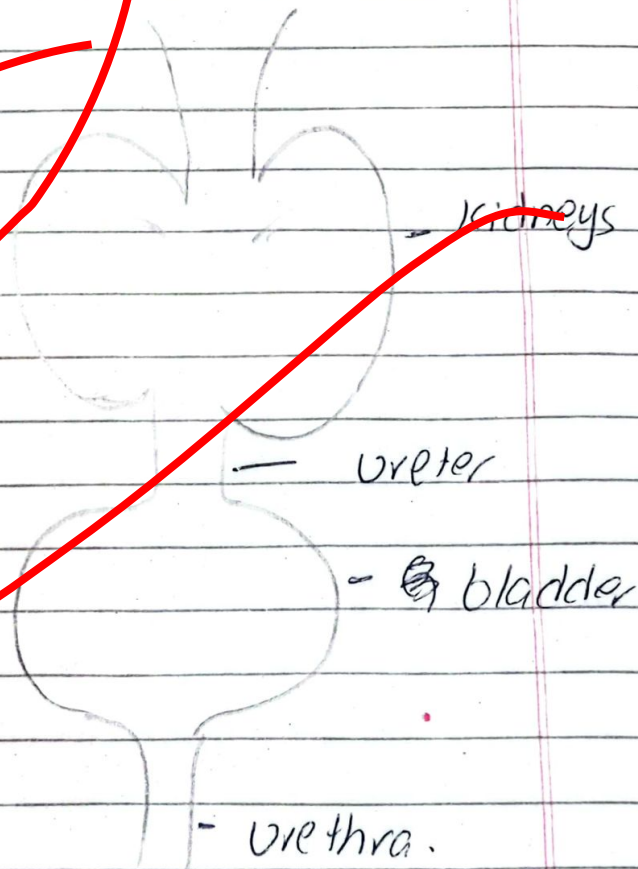vitamin C = Citrius Fruits increases more vitamin C in body.

d. Explain working of kidney in human Physiology.

Answer:

Excretary system performs the job of working of kindneys in human body.

This system removes the excess of anything which is not required by the body through utreous. especially of urea and carbon dioxide.

Nephrons play the vital role in removal of waste

kidneys

ureter

bladder

urethra.

Excretory system

Q. No. 5.

a. Writes uses of electromegratic Radiations.

ANSWER:-

Electromegnatic Radiations:
The Radiations which do not require any medium for the transmission.

Uses of Electromegnatic Radiations.

a) To use the radiations in X-rays and ultrasounds — X-rays

b) The radiations used in ozone depletion and Green house Gases are known as Ultra-violet rays

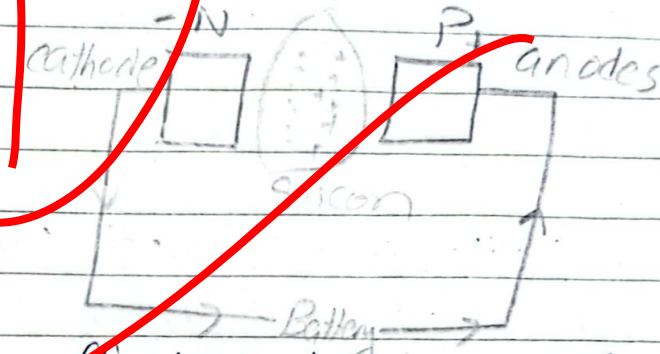c) In Radios and televisions the waves are used from Radiowave

d) Microwaves are used in communications through satellites and cooking food in microwaves

e) Infraved rays are used in the remotes which is visible to human eye.

b. Explain LED.

Answer:-

LED

Light ~~Emmitting~~ Emitting Diode (LED) is a process through which light passes with a connection of a battery.

It is much effective ~~than~~ comparitively to other lights

c. Describe in short Ceramics and semi-Conductors.

Answer:-

Semi-Conductors:
The semi-conductors lies in between the insulators and conductors. These have the properties to conduct energy under circumstances- as, if heat would be provided to it to get it worked.

d. Write a note on Polio.

ANSWER :-

POLIO:

Polio is a worst kind of disease which causes threats to human life. It disables the human's ~~body~~ lower body and stops the functioning of lower body.

Polio is caused by a virus. It affects the human spinal cord and ~~enables~~ the stops the functioning of body parts. There are different types of polio viruses.

The cure to this virus is either the drops or medication or injection (but in worst conditions).

It transfers by unhygenic conditions and surroundings.

(SECTION-B)

Q. No. 7.

Average of 7-consecutive numbers is 20. Find the largest of these numbers?

Solution:

let x be the smallest number.
average of 7 consective
numbers = 20.
largest number = ?

So,
$$20 = \frac{x + x+1 + x+2 + x+3 + x+4 + x+5 + x+6}{7}$$

$$20 = \frac{7x + 21^3}{7_1}$$

$$20 = 7x + 3$$
$$7x = 23.$$

largest number is $\boxed{23}$

6. A told B that C is his father's nephew. D is A's cousin but not the brother of C. what is the relationship obetween D & C?

<u>Answer:-</u>

A is C's father's nephew which means that A and C are cousins.
Also D is A's cousin and D is not the brother of C, which means D and C are siblings and D is sister of C.

c. Find the next number in the sequence

7, 12, 19, 28, 39 ___

SOLUTION:

The series

7, 12, 19, 28, 39 **52.**

If takes the addition series as 7 adds 5 is equal to 12. and it is addition of odd numbers.

So, the next number in the series after 39 is [52.]

B ✓

d. Sum of money is to be distributed among A, B, C and D in the ration of 5:2:4:3. IF C gets Rs.1000 .more than D, what is B's share.

SOLUTION:

The distribution of money among A, B, C,D = 5:2:4:3

So,

A let money = x

So,

A's share = 4 x
B's share = 2x
C's share = 4x
D's share = 3x

C gets Rs 1000 more than D means,

$$4x - 3x = 1000$$
$$x = 1000$$

B's share $= 2x$.

so,

2(1000)

$$\boxed{B's \ share = 2000}$$

Q. NO. 8

b. Find out the correct words from jumbled words

LUNGEF = ENGULF ✓
CKANS = SNACK ✓
CIREFE = FIRECE
EERAANMOPTP =
MNIKPPU = PUMPKIN

a. Ali is standing 10 metes away from a tree.....

SOLUTION: