

Q No 1:—

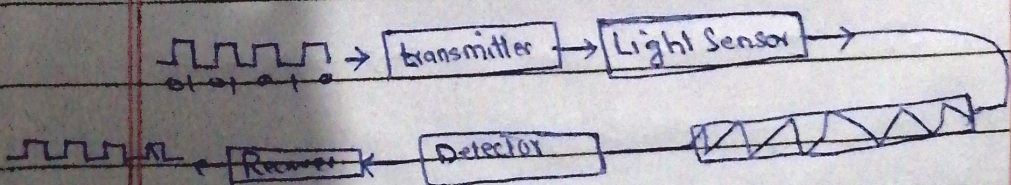
Answer A):—

(i) **Optical fiber:—**

Optical fiber is a medium of communicating information in the form of optical signal from one point to another."

(ii) **Explanation:—**

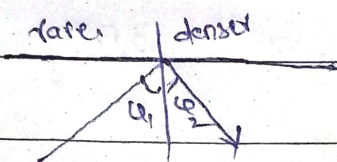
Optical fiber refers to a medium of information transmission from one location to another. The mandatory mechanism in the process we need to convert information into an optical signal, which is performed by modulator. which it transform the information part into a sensory form and then enter to optical fiber.

(iii) **Working Mechanism & block diagram:—**

Date: _____

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Optical fiber working principle is totally based on total internal reflection phenomena. Light enter from a ~~to~~ rare medium to a denser. as a result, it ~~reflect~~ bend toward normal.



the inner working of optical fiber is based on total internal reflection.

(iv) The main importance of optical fiber:

Optical fiber is the ~~its~~ backbone of the current time information technology - because of its importance.

- (i) it has high speed
- (ii) less dissipation of energy
- (iii) High quality of transmission ~~error~~ information
- (iv) Very lesser interference as compare to other transmission mechanism
- (v) ~~It~~ optical fiber has high reliability and versatility.

Therefore, its use is used in medical, military

Date: _____

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Internet connection, biomedical research and
So many usage.

———— * ————— *

Q no (part b):-

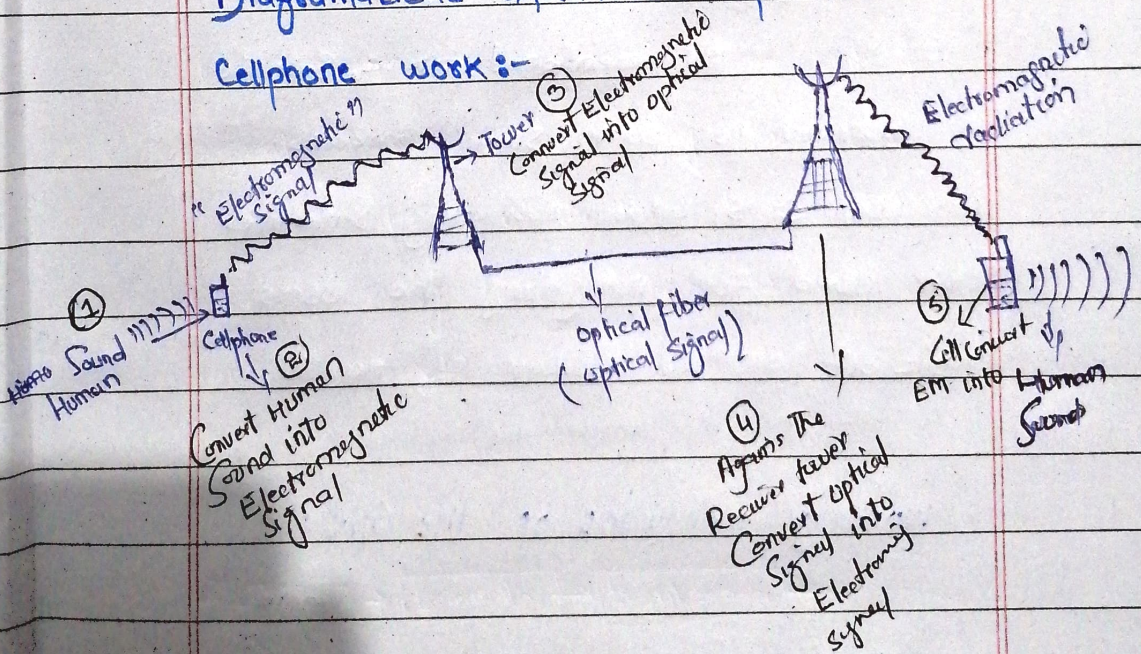
Answer:-

"The Cellphone Communication through
a block diagram?"

"Cell-phone a modern electronic
device which is use for ~~inform~~
communicating information"

Diagrammatical Explanation of how

Cellphone work:-



Date: _____

Qno1) part-C :- Satellite and working principle of GPS

~~Answer:-~~

Answer:-

Satellite :->

Satellites are launched to facilitate the users in communication, weather forecasting and for navigating the location

Working principle of GPS :-

Introduction:

As mentioned above, satellite is launched for some special means. Therefore, GPS, Global positioning satellites are used for navigating the users position on the surface of earth.

Working principles of the GPS:

There are total 24 GPS, while eight are existed in ~~the~~ in case any of

Q (no 1 part d): Differentiate between RAM and ROM:

Answer: -

Introduction: -

RAM and ROM are two part of computer memory. while, Computer is a device which store, process and retrieve the input and create a useful and meaningful out.

it means RAM and ROM are the parts of computer memory.

ROM :-

ROM refers to ~~Random~~ ^{Read only memory} access memory. which are utilize while computer is operational.

- > it's also called volatile memory
- > it vanish when the computer switched off

RAM: -

Random Access memory, this type of memory use for long term storing

Date: _____

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information

- > it is non-volatile memory
- > it does not vanish, when computer switched off.

E.g.: Computer Harddisk, ~~Dr~~ DVD, memory card, USB etc.