

6
Five friends P, Q, R, S, T

Who is 3rd Tallest = ?

Range of height = ?

Q is the 3rd tallest.

$$\begin{aligned}\text{Range} &= \text{Maximum} - \text{Minimum} \\ &= 180 - 150 \\ &= 30\text{cm}\end{aligned}$$



ii) Space between D and G is
two words. So we give
two word space between
E and H.

The men is uncle of
women.

i) $4, 12, 6, 18, 9, 27$

$4, 12, 6, 18, 9, 27, \underline{13}$

ii) $1, 2, 6, 24, 120, \dots$

$1, 2, 6, 24, 120, 720$



Q: NCQ: 8

ROAD $\xrightarrow{a}$ LADG
LAKE = ?

LAKE = OCNH

Coding: To follow the Road for
decoding the following steps take
to decode Lake

i) Space between R and L is two
word. So we give two words
space in L and O

ii) Space between O and G is one
word. So we give one word space
between A and C

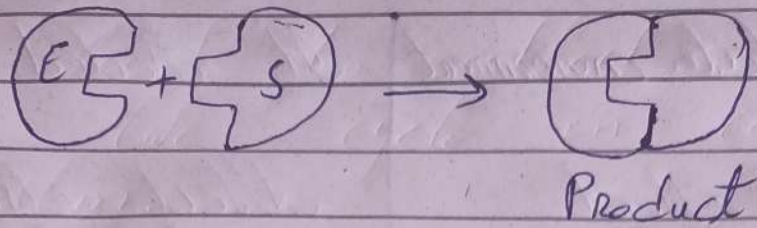
iii) Space between A and D is
two word. So we give
2 words space between
K and N

it not affect environment	It affected environment
Does not affect aquatic life e.g: Sun, water, air	Affect also aquatic life. e.g: Fuel oil, gases

Wind energy Sustainable Source for Future

Today, world fighting with Climate Change Pakistan is more vulnerable as compared to its emission. China is produced more energy through wind. So Pakistan can easily access to implement this to fulfill energy need. It is also environment friendly.





2 Factor affect enzyme activity.

All enzyme worked at specific PH. If changed in PH occurred then affected the enzyme activity.

All enzyme work at specific temperature. Change in temperature affect enzyme activity.

C

Renewable Energy Resources	Non-Renewable energy Resources
It is used again and again	It cannot be used again and again.
It produces no harmful effect	It produces harmful effect.



protein.

Why mitochondria cell power house

Because it store energy that required for cell. It gives energy in the form of ATP.

b

Enzyme: Enzyme are protein in nature which is used as catalyst in reaction at specific condition.

Lock and Key Model: According to this model "All enzyme have specific shape to join a substrate for chemical reaction".



It lead to affect of all life cycle on earth ecosystem.

3 Major GHGs:

Carbon^{oxides}, Sulphur^{oxide} and Nitrogen oxides
(CO₂) (SO₂) (NO₂)

Q: NC: 3

a
Mitochondria: It is used to store all energy in the cell and produce energy in the form of ATP.
All cells take energy in the form of ATP.

Ribosomes: Ribosomes are made up of protein. They are present in Rough endoplasmic reticulum which produces



C:
Global Warming:- The temperature of earth atmosphere has been increasing due to greenhouse gases called global warming.

An estimation of 0.5°C increase in temperature from 1970 to 2001 which affect million of people on earth.

Green House Gases Mechanism:-

Automobiles, vehicles and industry leave element or gases which mostly contain Carbon, Sulphur and Nitrogen in the air.

These gases trap more heat which is coming from sun.

As a result increase in temperature.



b

Semiconductor: It has both properties metallic and non-metallic at certain condition.
e.g: Silicon, Germanium

P-type

It has Positive Charge

It is trivalent

N-type

It has hole

It is Pentavalent

Uses: It is used in electronic devices.

It is used to store data.
Atmost 90% of semiconductor produce by Taiwan.



They produced heat
by fusion reaction.

They not produce
heat but also
reflect light rays.

Life Cycle of Star

Nebula: First of all, it is a collision of gases with time period of taking 10 millions year to form a nebula.

Nova: Then fusion reaction occurred and form a nova and increased in size.

Super Nova: It sizes increase so much that it loses its gravitational force to hold. At this stage, small stars are formed but large stars are undergone in formation of **Black hole**. Due to huge masses lose gravity and form black hole.



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Batch

94

Paper

GSA



Part II

Section 1

Q: NO: 2

(a)

Star

Planet

Star have its
own illumination

Planet are not
its own illumination

They are illuminated
by fusion reaction

There is no fusion
reaction in the
planet

