

Tsunami

Tsunami derived from
French word which have two
part "Tsu" means "Harbour"
"nami" means "waves" it is a
Harbour waves.

Formation of Tsunami:

Tsunami formed due to
earthquake, vibration underneath
water. It is single wave or
multiwave. Mess's of waves
shows that it form a longer
wavelength $\approx 500\text{km}$ which travel
700km/hour. When it move from
it original point it travels with

with 500 km/hour. The signal of
Tsunami shows the level of
water decrease and bays become
empty.

Cause of Tsunami

Volcanic eruption

Diagram? Nuclear Explosion

?

Earthquake

Vibration

Proclation of coldwaters

Richter scale

Richter scale is
used to measure the
magnitude of earthquake

The scale tells the
destruction that occur
during the earth.

it contain logarithm
value. which value

start from 0.1 to 10
Richter

General Science and ability

Q24

Q1) Explain structure of Sun?

The Sun is the main source of energy on earth. It is the yellow dwarf planet which carries a lot of mass in it. It has strong gravitational source. That cause all the object revolve around it. It has eight planets, stars, stellar remnants etc.

(1) Composition of Sun:-

Sun is composed 70% Hydrogen, 28% helium, and 2% remaining objects. It contain high mass. It has 4321686 radius. About 1.3 million

$\frac{1}{08}$
 $\frac{28}{28}$
 $\frac{56}{56}$

earth required to covered it mass. it is the only source of energy on earth.

(2) Layers of sun

(2.1) Core

(2.2) Radiative Zone

(2.3) Convective Zone

(2.4) Tacholone Zone.

(3) Corona

it is the surface of sun which covers the area around the radiative zone. it has 15.6 kelvin temperature and 25.6 pressure. it produces light/energy emit from sun.

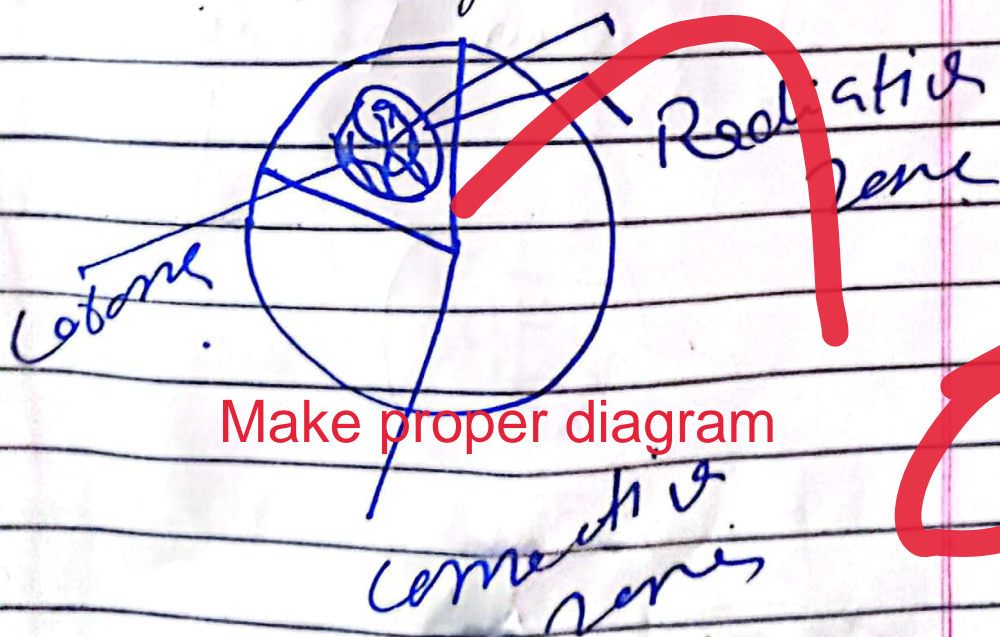
(3.1) Radiative Zone

It is a zone that start from corona. it is hottest zone.

Because all hydrogen and
convert into helium it is
higher density than water

(3.2) Convection zone.

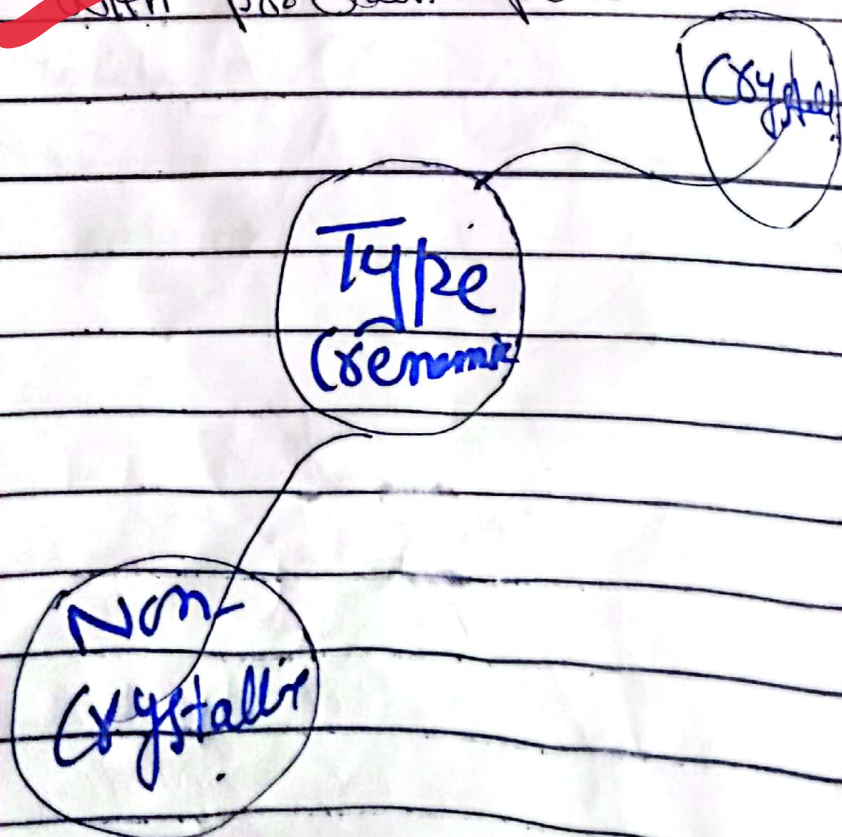
It is zone around the
radiative zone in this zone
energy is move in the form
of electromagnetic way. The
molecule move in the form
of ionization. moving molecule
scattered down in gas and
required thousand of years
to escape from it.



Make proper diagram

Q
What is ceramic? It is possible that ceramic can be recycled?

Ceramic is a material that is used to form the pottery or floor brick. In ancient times, people used plastic or buckets. They are not useful. Now they ceramic are discovered. It is made up of clay. They are used to form object with porcelain process.



Crystalline Ceramic

They are amenable
and form from clay.
Non-Crystalline.

it is from from
glass. Melt the glass and
shape the material.

it is possible to
ceramic recycled.

No, it is not possible
in almost. But very
case in which ceramic
are recycled. like the
floor brick are made of
clay. So it is reshaped
again. Through pozzolan
process melt it and
recycled it again.

through source generate form
electric energy

(2) Solar energy.

Solar is a source of
energy. Abundant amount of
light reach the earth to
use it form electricity.

(3) Wind energy.

The wind speed 153 km/h
speed are required to form
electricity. Pakistan is the
luckiest country it has
coastal area have opportunity
to form.

Bio-Fuel.

waste material are
used to overcome energy
crisis

Strategies.

Housing Salor energy
Pakistan fulfil it energy
demand and reduce its
dependency on fossil
fuel.

0

Q7

What is the circumference
of a circle with radius
4cm?

Data

radius = 4cm

Circumference of a circle?

Formula

$$C = 2\pi r$$

It have constant value
1.314

Q8

$$C = 2 \times 3.14 \times 4$$

$$25.12$$

Result = 25.12

(b)

age of 5 students 20, 22, 21, 21, 23

Find mean, median, mode

Range

Solution

$$\text{mean} = \frac{\text{sum of observation}}{\text{total num of observation}}$$

$$\text{mean} = \frac{20 + 22 + 21 + 21 + 23}{5}$$

$$\text{mean} = \frac{107}{5}$$

$$\text{mean} = 21.4$$

Q

Renewable Energy Sources

The source of energy is (renewable) generate it again are called renewable energy. They are abundant in nature.

Sources of Renewable Energy

- (1) Hydro-water
- (2) Solar energy
- (3) Wind - Energy
- (4) Bio - Fuel.

(1) Hydro-water

The dam is generated near the area of river when the water pass

Dos and Don'ts for General Science & Ability Paper

Hi there, you've done well. Know that acquiring knowledge is one thing and reproducing it in paper according to what's asked is another. There are a few things I would like to highlight.

1. A 5 marks part requires 2 sides (not more than that) of a paper. Know that there can be two or three parts of a question and their marks are divided accordingly. So, address all of them in a just manner.

2. Focus on time management. You get 35 minutes to solve one question and about 8 minutes per 5 mark part. Manage your time accordingly.

3. You need to understand that your paper is supposed to look more scientific than theoretical. So, add flowcharts and diagrams where required.

4. Your handwriting and neatness can be really impactful. Avoid cutting and overwriting.

5. Focus on your spellings and your grammar.

Here, in GSA there's no deduction in marks but your expression will definitely create an impact.

6. In ability portion, give explanation for analytical question in words. You need to understand that a 5 mark part requires all steps written and explained.

Good luck for CSS 2025. You're gonna rock in sha Allah. :)