

A general set of instructions/suggestions to improve your score

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 at least 2 and at max 3 sides 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 ability 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. :)

Q# 06 (c)

we know that

$$\text{No. of Heads} = 48$$

$$\text{No. of Feet} = 140$$

The No. of Hens

Let Hens = x

Cows = y

Formula.

$$2H - \frac{C}{2}$$

$$2(48) - \frac{140}{2}$$

$$96 - \frac{140}{2}$$

$$\frac{96 - 140}{2} = \frac{26}{2}$$

$$x = 26$$

$$y = 48 - 26 = 22$$

$$\text{No. of Hens} = 26$$

$$\text{No. of Cows} = 22$$



Q#6 (d)

$$v_1 = 40 \text{ km/h}$$

$$d_1 = \frac{x}{2}$$

$$v_2 = 60 \text{ km/h}$$

$$d_2 = \frac{x}{2}$$

Average speed.

Time taken first part

$$t_1 = \frac{x}{40}$$

Time taken second part

$$t_2 = \frac{x}{60}$$

Average speed.

$$v = \frac{\text{total distance}}{\text{Total time}}$$

$$v = \frac{2x}{\frac{x}{40} + \frac{x}{60}} = \frac{2 \times 40 \times 60}{40 + 60}$$

$$v = 48 \text{ km/h}$$

Q#7 (a)

A Number is divided by 6 and then 50 is added. If the total is 60. What is that Number

Solution.

~~$$\frac{x}{6} + 50 = 60$$~~

~~$$\frac{x + 300}{6} = 60$$~~

~~$$x + 300 = 360$$~~

~~$$x = 360 - 300$$~~

~~$$x = 60$$~~

The Number is — 60.

Q#7 (b) Ring the odd one out

8, 16, 34, 40, 48

The odd one is 34

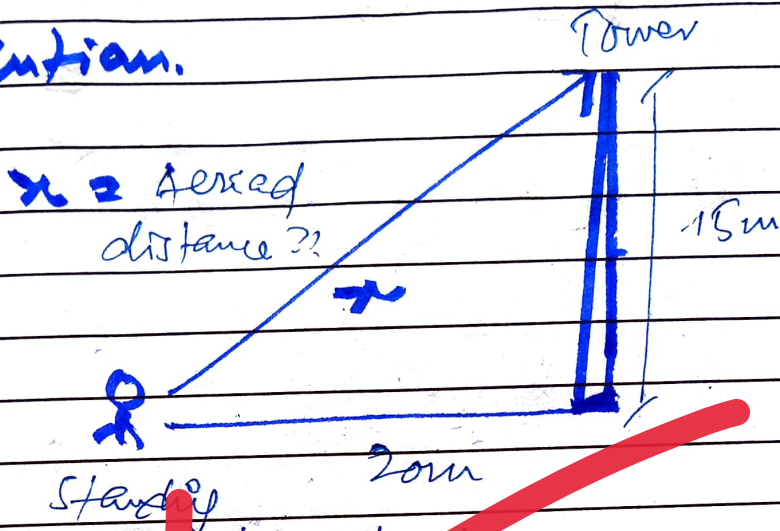
Because 34 is not divide by exactly divide by 8
 Except 34, all the number exactly divide by 8.

Elaborate in words

Q# 7(c)

A tower is 15 m tall.
If I am standing 20 m from
the base of the tower.
What is my aerial distance
from the top of the tower

Solution.



We know that it's Pythagorean
Theorem

$$\text{Hyp}^2 = \text{Base}^2 + \text{Perp}^2$$

$$x^2 = (20)^2 + (15)^2$$
$$x^2 = 400 + 225$$

$$x^2 = 625$$

square root both side

$$\sqrt{x^2} = \sqrt{625}$$

$$x = \sqrt{3 \times (5 \times 5) \times 7}$$

$$= 5 \sqrt{21}$$

$$x = 22.9 \text{ m}$$

Q#7 (d)

Total Temp = 30000

For odd dates, 5th, 7th = 1000

For even dates, 6th, 8th = 2000

Average amount = $\frac{1000 + 2000}{2}$

= 1500

Total amount paid = 30000

No. of days he stayed in

the hotel = 20

$$\frac{30000}{1500} = 20$$

Hence, The person stayed in a hotel according to given data in 20 days.

Section - I

Q#04 (5)

Cause of Floods?

Answer:-

The main causes of floods can be perceived widely, and due to various factors floods occurs, and these are

- 1) Rivers can overflow their banks due to heavy rain cause flooding.
- 2) Breach of dams
- 3) Global warming, due to extreme heat and temperature layers in non-polar regions melt rapidly and then the volume of rivers and seas rise high.
- 4) Improper agriculture practices
- 5) Deforestation
- 6) Inadequate maintenance of drainage facilities, blockage of debris brought waters.

These are the main cause of floods.

Flood 2022 and 2010

The monetary damages incurred by Pakistan due to recent floods are nearly twice as high as those incurred in 2010 floods.

Official estimates put the losses due to recent floods at over \$18 Billion, compared to \$10B in 2010.

2010 Flood

2022 Flood

Area hit - 20%	33%
people affected 20 Million	33m
Death 1885	1400
Crop damage 4.9m hect	8.3m hect
Livestock - 1.2m	0.75m

Role of NDMA

The Role of NDMA in flood 2010 and 2022 involves creating and implementing disaster management preparedness plans which include

- warning system
- community training and disaster risk reduction strategies.

Others operation such as

Relief operation

Rehabilitation and Reconstruction
public awareness.

In a summary, NDMA
National disaster Management
authority plays a crucial
role in disaster management!

Q# 4
a)

Planet-

There are some
body in space
that orbit the star

Stars

There are
massive sphere
of hot gas.

They do not produce their
own light

Emit light
and heat

Example
Earth, Venus,
Mars,

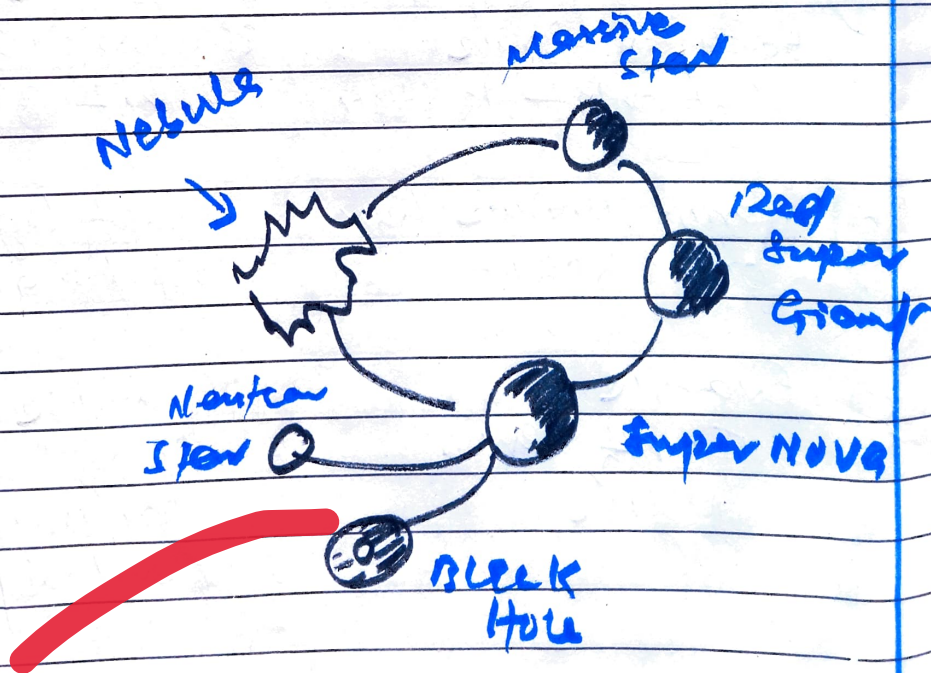
Example
Sun,
Proxima
Centauri.

Add more points here

How ~~How~~ Star become a Black hole.

When a massive star much larger than the sun exhausts its nuclear fuel, it undergoes a supernova explosion, ejecting its outer layer.

If remaining core is sufficiently massive about 3 times the sun's mass, it collapses under its own gravity, forming a black hole.



Q#04 (a)

Conductors

Materials that allow easy flow of electricity due to presence of free electrons.

Example - Copper is a conductor ✓

Semi-Conductor

Are materials that conduct or conduct electricity in ~~certain~~ conditions.

Example - Silicon

Metals

Metals or elements that are typically shiny, malleable and conductive elements. ✓

Example - Aluminium - ✓

Plastics

Synthetic material made from polymers, which has long chains of molecules. ✓

Such as polyethylene used in plastic. ✓

Ceramics

Inorganic or non-metallic that are typically brittle, heat resistant and insulators.

They are made from clay at high temperature.

Example => **Porcelain**

A type of material used in household.

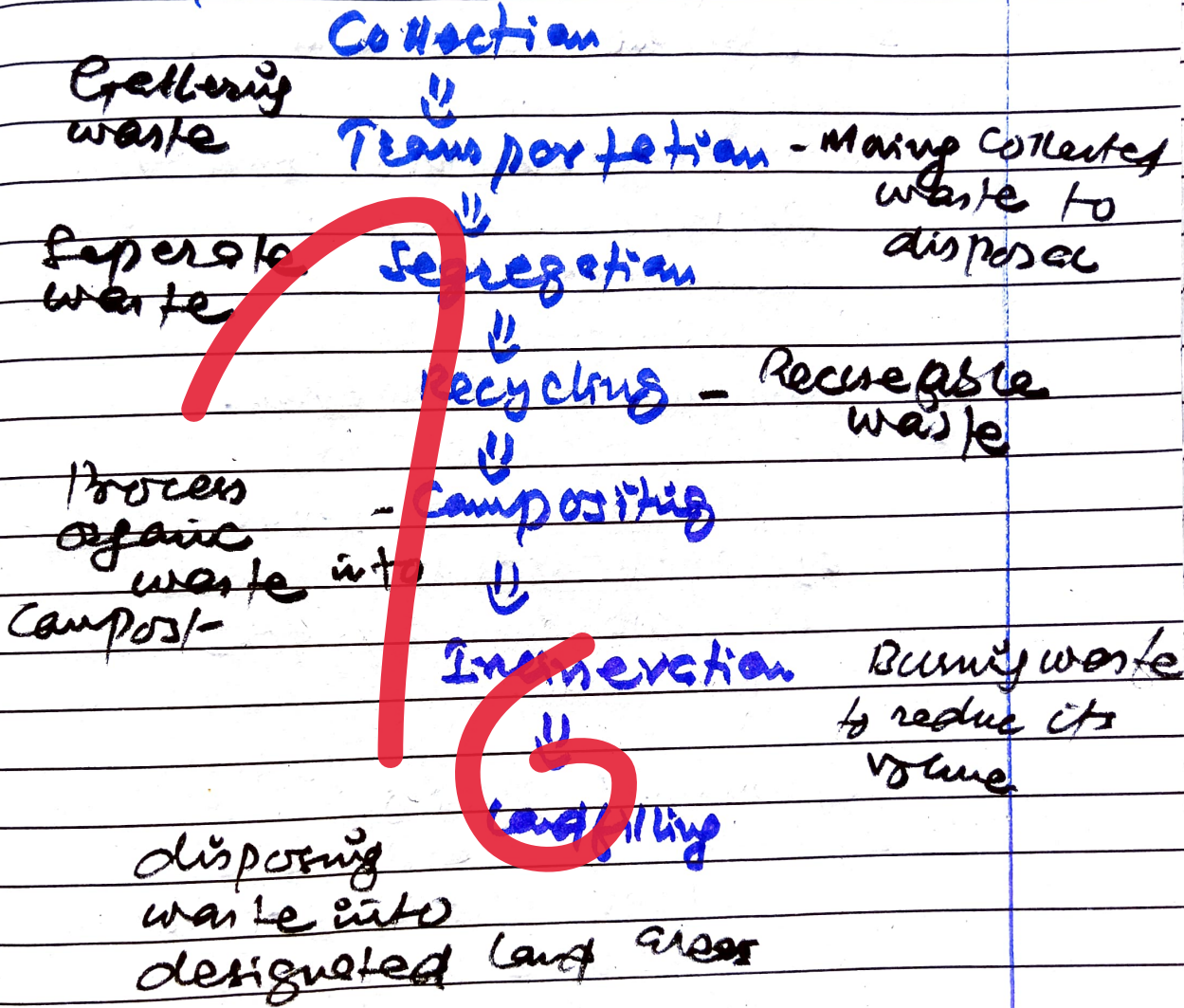
like - dishes



Q# 5 (c)

Solid waste management.

Steps:-



Present information in a proper manner

main issues in solid waste management in our country.

- 1) Lack of infrastructure
In-sufficient facilities for collecting waste

ii) Public Awareness

Low level of public awareness and participation in waste segregation and recycling.

iii) Inefficient waste collection.

Irregular waste collection service leading to illegal dumping.

iv) Environmental pollution.

Improper disposal, such as open burning, cause air, water and soil pollution.

v) Government policies.

Weak enforcement policies of waste management regulation.

Address both parts properly

Q.05 (5)

Radio activity.

↓ process by which unstable atomic nuclei lose energy by emitting radiation.

This includes release of Alpha particle Beta particles or gamma rays.

Radioactive material spontaneously emit these particles or rays

Example = Uranium
Thorium or Radon

Diagram?

?

Natural Radioactivity

Artificial Radioactivity

1) Occurs naturally in
Environment
Such as
Uranium
Thorium or
Radon gas.

2) Induced by
Humans through
nuclear reactions.
Such as
Carbon-14

3) Undergo radioactive
decay without any
human intervention.

Used in Radio-
Carbon dating
Used in nuclear
reactor or
particle accelerators

Q. 5(a)

Population Planning

Strategies and action-taken to manage and control the growth of population

It involves implementing policies and programmes aimed at balancing the population size with available resources.

Improving quality of life and ensuring sustainable development

Benefits.

1) Economic growth

a) Balance work force

b) Reduce poverty

Controlling population growth can reduce ~~population~~ ~~growth~~ poverty

ii) Improve health

a) Maternal and child health

b) Disease control

iii) Environmental Sustainability.

- a) Resource Management
- b) Reduced Pollution.

iv) Social Stability.

- a) Reduce unemployment
- b) Social Service.

v) Empower of women.

- a) Reproductive rights
- b) Gender equality.

vi) Educational opportunities

- a) Better access
- b) Quality of education.

Conclusion.

Population Planning is a crucial tool for promoting sustainable development and economic stability, and enhancing the quality of life by managing population growth.