

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 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. :)

eclipse that are the following.

i) Total lunar eclipse

moon is completely in umbra shadow region. So, the moon appears dark this is called the total lunar eclipse.

ii) Partial lunar eclipse

moon is between the umbra shadow region and Penumbra shadow region so, it appears partially dark. **Add proper diagram**
Proper explanation is required

iii) Penumbral lunar eclipse

moon is completely in the penumbral shadow region. It may or may not appear dark but mostly clear appear.

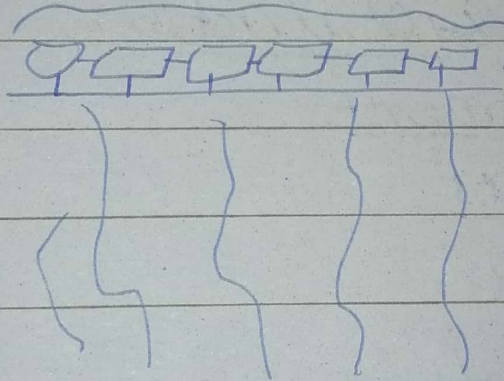
Q3 (D)

Earthquake and volcanic eruption interconnected

Because of heat a magma under the earth burst and the tectonic plates diagonally or another way vibrate a huge earthquake.

Tectonic plate:-

7 ranges.



Tectonic Plates

Natural Cause:-

- Heat waves, Convections
- Magma burst.

Heat convection

Anthropogenic cause

- Heavy drilling
- Bombing experiment.

Effects

- Landloss
- Infrastructure damage

Solutions

- Public awareness
- Early warning system
- Collaboration

Volcanos :- There are the

mainly two ways of volcanic eruption.

Establish the link through diagrams and research based information

- i) Slow & Silactive
- ii) Dorment

Effects

- Landslide
- Pollution
- Health problem

Yes the earthquake and volcanic eruptions are interconnected because in volcanic eruption the same way of lava and magma burst that vibrate the 7 ranges of places.

Q3(c)

Electromagnetic radiation

Those which travel and having ranges from nanometer to micrometer and having high length and frequency called electromagnetic radiations.

There are many types of electromagnetic radiations.

Types

X-rays:-

Having high frequency and shorter wavelength from 0.01mm to nanometer. These are also known as α -rays.

β -rays: These also having high resolving power and also penetration power.

Gamma rays:

These are also

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frequency and also high resolving and penetration than all others.

EMR Spectrum

Visible spectrum
Electromagnetic rays having visible spectrum including infrared, microwaves and all other rays.

760nm

Q3 (b)

Enzyme:

Enzyme are those chemical that help in metabolic and also used as energy resources. It catalyze the reaction in our body.

Functions of Enzyme

There are many functions of enzyme. ✓

→ It helps in the metabolism
→ It catalyses the chemical reactions

→ It helps in the reactions to increase the rate of reactions.

Example:-

The best example of enzymatic reaction is the Fermentation of yeast. In which they contain lactic acid and convert in Yogurt.

Yeast Fermentation
Yogurt.

Penicillin was also produced by the enzyme.

Question No. 4(A)Noise Pollution

A type of pollution that damage the environmental clear listening ability and that harmful for creature and adverse impacts on all. The frequency of noise increased from level that is suitable for human and create disturbance called noise pollution.

Causes of Production

Noise Pollution is mostly produced from:

- Daily routine machinery in agriculture such as Tractor, turbines etc.
- Produced from Transport of routine.

- Electricity generation Project.
- Storms.

Harmful effects: There are many harmful effects of noise pollution

- Headache
- Insomnia
- Bone Pain
- Blur vision
- Listening capacity affected.

ways to curb

- Public awareness
- minimum use of transport
- minimum use of electric appliance and switch off when there is no need.
- Prefer to use the Electric vehicles.

Q3(c)Water Quality

The quality of water that is suitable to drink for all and specially for human beings.

Water cycle:

The water cycle is the evaporation that evaporate the water and condensed into droplet or gaseous form into circulation and precipitation.

Sludge Process:- In the sludge process water filtered by the sludge that contain rocks and stones that hurdle and capture dirty things contained water.

Filtration:- In filtration different perspective used.

Chlorine used:- In water
Chlorine is used to
kill the bacteria.

Water Quality and Standards

- i- It must be in Pure form.
- ii- Do not directly filtered but filtered by procedure.
- iii- It must be saltless.
- iv- without bacterial infection which means biologically good
- v. must be Chemically good Chlorinated
- vi- Physically good, do not odour contain.

u ————— u

Q4(b)

Importance of fibre in diet

The importance of fibre in diet is very excessively. In diet fibre contain milk, meat and egg with wheat. It helps in fat and fat soluble production. It provide the energy to body. It balanced food quantity in the body.

Food Considered balanced

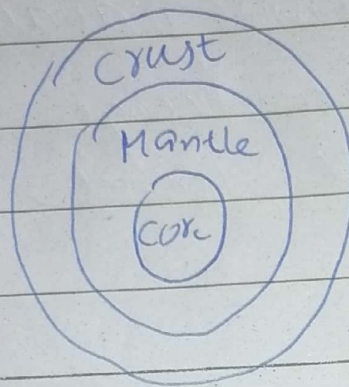
A platter of food considered as balanced because it balanced the diet and overcome chance of food malnutrition and malnourished. It import Na^+ , K^+ and P^+ in the body with food.

Generic
Explain
properly

Q4(D)

Lithosphere :-

Lithosphere is a sphere that contain core, mantle and rocks with minerals.



Crust

Soil, Horizon O, A, B.

0-70km - 5-11cm

Mantle :- Almost middle Part

Upper mantle Zone - 721km - 400

Lower mantle Zone - 670 - 2000

Core

Outer ~~core~~ - Nickel - 110 relay

Inner core Solid Iron
in spinning
movement.

Rocks :- The hardest part of earth that can be brittle or not and solid at room temperature such as stones, sand etc.

Minerals :- underground resources and reservoir available for human beings such as coal, oil and gas.

Section-II

Question No.8

(c)

$$A = \{10, 11, 12, 13, 15\}$$

$$B = \{10, 12, 14\}$$

$$U = \{10, 11, 12, 13, 14, 15, 16, 18\}$$

$$(A \cup B)' = A' \cap B'$$

L.H.S

$$(A \cup B)$$

$$A \cup B = \{10, 11, 12, 13, 14, 15\}$$

$$(A \cup B)' = U - (A \cup B)$$

$$= \{10, 11, 12, 13, 14, 15, 16, 18\} - \{10, 11, 12, 13, 14, 15\}$$

$$= \{16, 18\} \quad \text{--- (1)}$$

R.H.S

$$A' \cap B'$$

$$A' = U - A = \{10, 11, 12, 13, 14, 15, 16, 18\} - \{10, 11, 12, 13, 15\}$$

$$= \{14, 16, 18\}$$

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$$B' - B = \{10, 11, 12, 13, 14, 15, 16, 18\} - \{10, 12, 14\} \\ = \{11, 13, 15, 16, 18\}$$

$$A' \cap B' = \{14, 16, 18\} \cap \{11, 13, 15, 16, 18\} \\ = \{16, 18\} \quad \text{--- (2)}$$

Hence proved that L.H.S. = R.H.S.

$$(A \cup B)' = A' \cap B'$$

Q No. 8 (D)

No. of Triangle in Figure.

The no. of triangles in
the given figure are
Eight

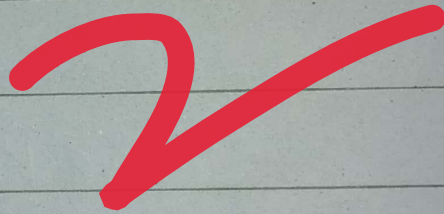
$$= 8$$

Q8(A)

Charge = £20 + 4n
formula

n = windows
= 7 windows

~~Charge formula = 20 + 4(7)~~
~~= 20 + 28~~
~~= £48~~



Question No. 6

(D)

Series ~~-10, -8, 6, 40, 102, ?~~

$$= \boxed{102 + 136 = 238}$$

o ————— o

Q No. 6(c)

$$V = \pi r^2$$

$$= 3.14 \times (12)$$

$$= 3.14 \times 144$$

$$= 452.16$$

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Q 6 (A)

$$K = ?$$

$$9, 8, 10, K, 12 = 15$$

$$\frac{9+8+10+K+12}{5} = 15$$

$$39 + K = 15 \times 5$$

$$39 + K = 75$$

$$K = 75 - 39$$

$$\boxed{K = 36}$$

Q8 (c)

i) xalciap
placier

ii) tyhniaum
Thyianum

iii) arse hcc
Search

iv) monitean
Hedt moni

v) tax Ph
Ph rate

Q6 (B)

$$\text{Sugar} = x$$

$$\text{Colored water} = y$$

$$4x : 3y$$

$$4x : 5y$$

$$4x + 3y = 0$$

$$+ 4x + 5y = 10$$

$$-2y = -10$$

$$y = 10/2 = 5$$

$$4x + 5y = 10$$

$$4x + 5(5) = 10$$

$$4x + 25 = 10$$

$$4x = 10 - 25$$

$$4x = -15$$

$$x = \frac{-15}{4}$$