Dos and Don'ts for the General Science & Ability Paper

Hi there — you've prepared well! Remember, knowing the content is one thing, but presenting it in the paper exactly as required is another. Here are a few key points to keep in mind:

1. For a 5-mark part, aim to write at least 2 and at most 3 sides of the answer sheet. Often, a question has two or three parts, and the marks are divided accordingly — so address each part fairly.
2. Manage your time wisely — you have about 35 minutes per full question, which comes down to around 8 minutes for each 5-mark part. Stick to this to avoid rushing later.
3. Make your answers look scientific, not just theoretical. Use flowcharts and diagrams wherever they add clarity.
4. Neatness matters — keep your handwriting clean, avoid cutting or overwriting.
5. Mind your spelling and grammar — while GSA doesn't deduct marks for these, your expression leaves an impression.
6. In the ability portion, explain analytical ability questions in words. For a 5-mark part, show all steps and provide clear explanations.

Good luck for CSS 2026 — you're going to ace it, in sha Allah! 🌟

Date: _____ Sun Mon Tue Wed Thu Fri Sat

C;

M = 2A + S — (1)

After 2 years

M + 2 = S + 2

M + 2 = 2(S + 2) — (2)

2A + S + 2 = 2S + 4

2A + S = 2S + 4

S = 22

D; R: 6hour for 32 pages

R: 5h for 40

R = $v = \frac{d}{t}$ $\frac{w}{t}$

$= \frac{32}{6} \Rightarrow \frac{16}{3}$

R = $\frac{40}{5} = 8$

combined speed = $\frac{16}{3} + 8$

$= \frac{40}{3}$

w = 110

v = 40/3

t = $\frac{w}{v}$ $\Rightarrow \frac{110}{40/3}$

110 × 3 = 330

$= \frac{330}{40} \Rightarrow 8$ .. hour

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CamScanner

Date: Sun Mon Tue Wed Thu Fri Sat

No 8

(i) C A (B) D E

B has middle town

(ii)

A 1 km

B North

C West if I turn right to left

D or East if I turn right

E West

(D) There is 38 triangles

Section A

Disaster Risk Managment DRM

DRM is any types of immidate reponse to any disasters like flood, Earthquack or fire.

What is Risk Assement in DRM

~~Early~~ Collecting Data It involves patterns changing or any abberance in normal ecosystem.

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~~2. Reportin~~

2. Considering Report: It includes the common people to respond and rep by reporting the disaster quickly when immediately after happening to authorities.

3. Read Releasing Early Warning: Authorities have to publish or realise the early warning to gather resources to provide emergency response

Why Risk Assement is Important in DRM.

Precautionary Measures: It provide ability to take early action to forstall the disastrous consequences of Risk.

TO Prevent from Damage: Early steps even before happening of calmity reduces the damage and human casualties.

To maintain normal ecosystem It help to analyze change in trends and to sustain

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normal daily life

Conclusion:

Disaster Risk Managment through Risk assesment reduce the fatal consequences of disaster. In Japan earthquack early warning system has ability to predict coming of Earthquack 20-25 minutes before which provide time to people to evacuate to Earthquack protected Halls.

(b)

Biofuels:

Biofuels are fuels come and produced from biomass like animal waste, plant wasts, or organism biological

Types:

1- Bio-deisal
2- Bio gas
3- Bio-ethanol

Importance

- It is less expensive than normal fuels which non-renewable
- It produces less harm to environment by releasing

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less quantity of CO, CH_4 etc.

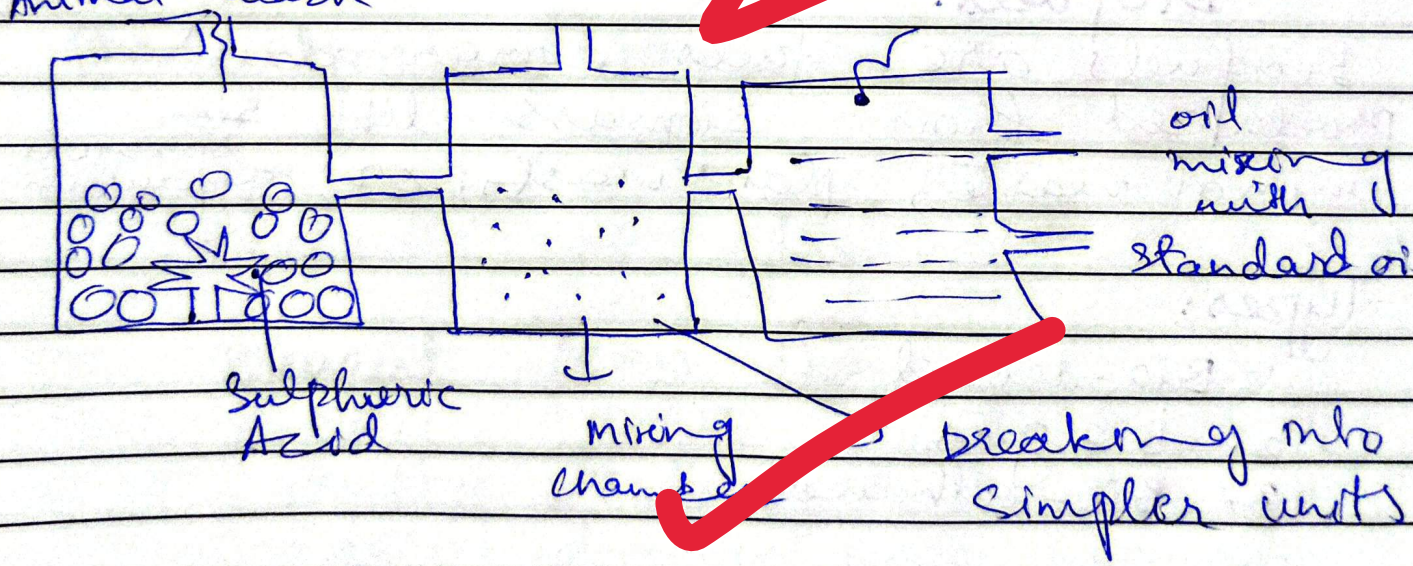
~~(i) Biodiesel~~

(i) Biodiesel:

It is the feul which can be used as a alternative to normal & non-renewable feul.

Production

- It can be produced by process called ~~bio~~ Trans-esterification
- It requires large amount of oil rich animal waste
- Required multichambered equipment
- Require Stand



- Gives Glycerin as by product
- less efficient
- increase the risk of deforestation

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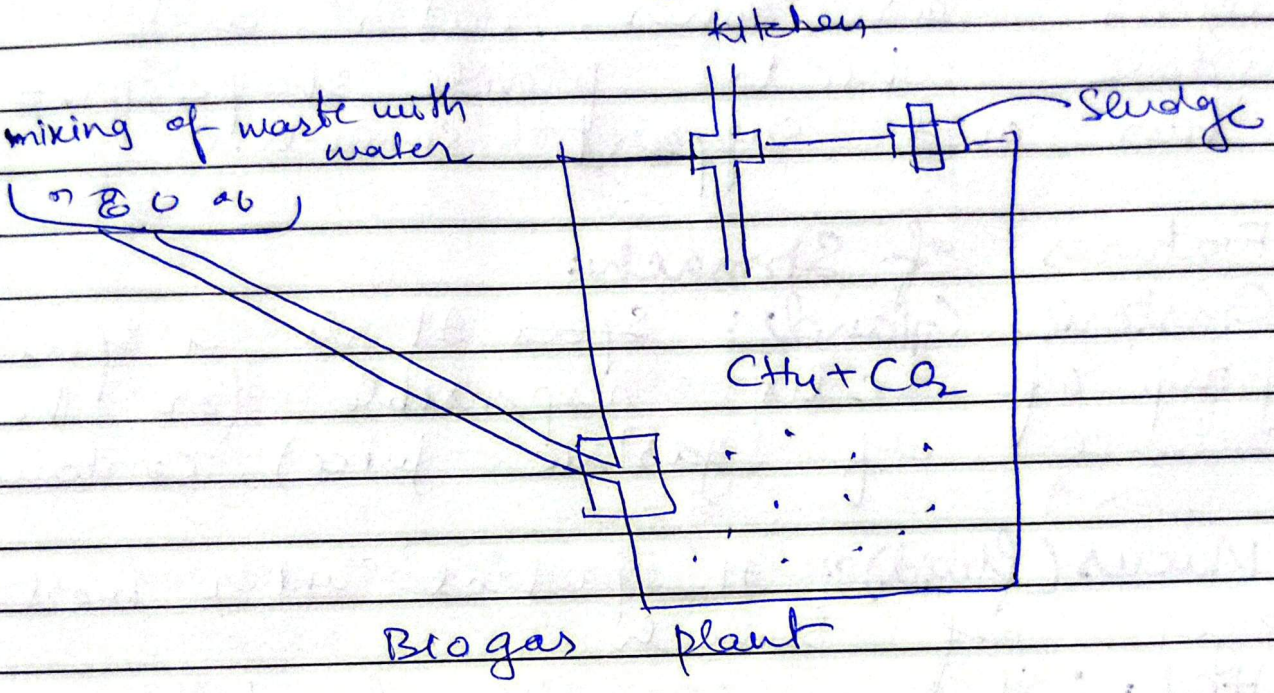
Bio-Gas:

It can be produced from animal & plant wast used as alternature to common gas.



Biogas plant

- It give sludge as bio product which is the very good fertilizer
- 70% of CH_4 & of 30%.
- It is smell gas
- has low pressure

(c) Digestive System:

Digestive is responsible for the breaking down of large particles of food into smaller more absorbable particles as

1. Carbohydrades
2. Proteins
3. Fatty Acids

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Stomach: is the J-shaped organ of the body responsible for 10% of digestion. It consist of 3 layers as inner, outer and middle which provide shape, protection and support stomach.

Features of Stomach:

Gastric Gland: It is a specialized group of cells responsible for the release of 'gastric juice' contain:

(i) **Mucus (fluid):** It protect inner most layer of stomach

ii **HCl:** • It is responsible for killing of micro-organism and
• convert pepsinogen into pepsin

iii **Pepsinogen:** It is present in inactive form HCl convert it into pepsin responsible for breaking down of protein into polypeptide.

iv **Chyme:** It is a semi-fluid like structure which formed after grinding of by stomach through forward & backward movement.

- Chyme then exit to small intestine by Pyloric sphincter

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Small Intestine: 90% of digestion occurs at small intestine. It 6m long. It complete digestion.

Features / Working:

a. **Doudenum**
- 20-25cm in length,
- releases only enzyme Entrokinase
- consist on
  - (i) Pancrease
  - Responsible to release pancreatic juice through pancreatic duct, consist on following enzymes like **Amylase, Sodium Bicarbonate, Trypsogin and Lipase.**

(b) **Liver:** It releases bile which move through bile duct, responsible for conversion fats into fatty acids.

(c) **Jejunum:** most of the digestion occurs here. It releases intestinal juice which contain enzymes
- **Aminopentidase:** Polypeptide into dypeptide
- **Erypsin:** Convert dipeptide into Amino acids
- **Lipase**
- **Maltase**
- **Lactase**

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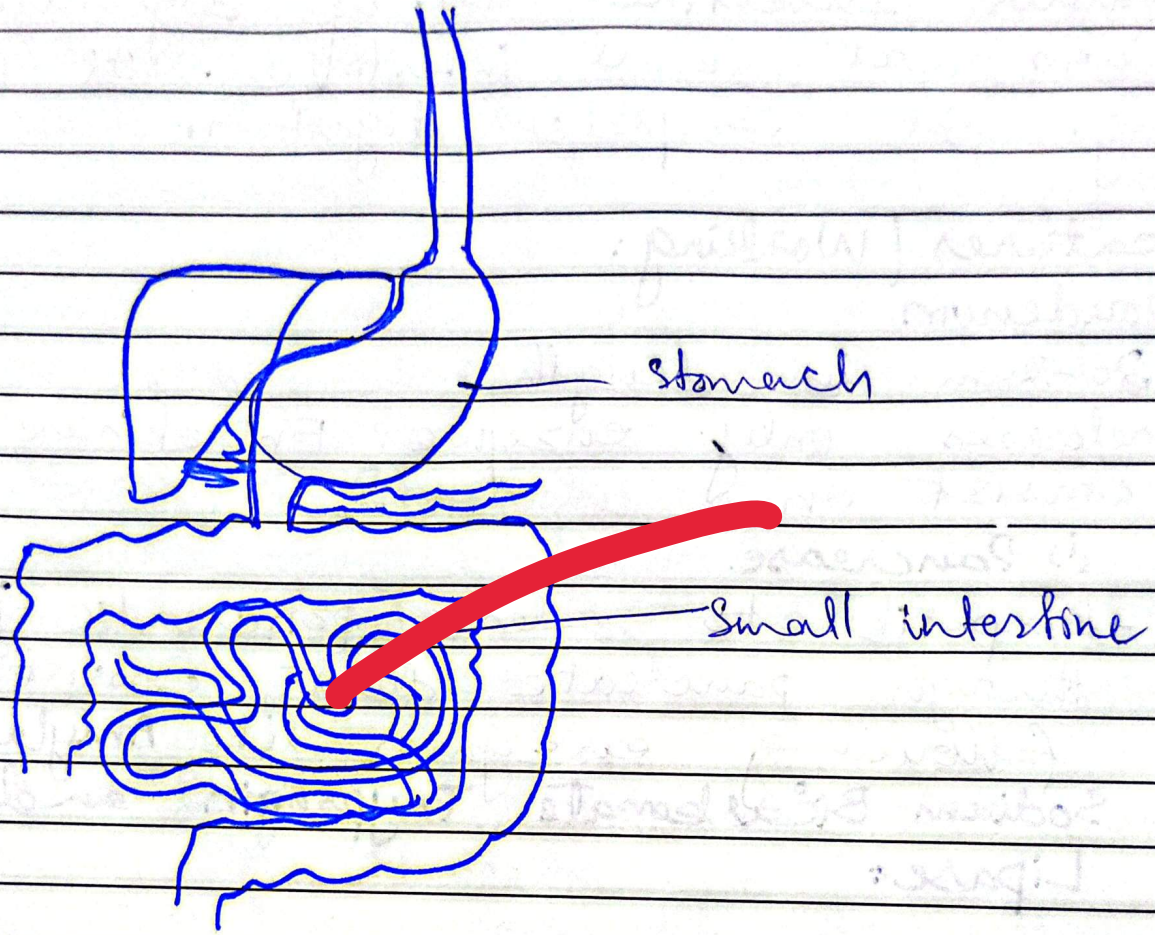

(Q 3)

Global warming

It is the average and gradual increase in ~~wat~~ temperature of surface of Earth and lower troposphere.

According to NASA: 1°C temperature has risen in last century.

How GW can be reversed:

- Shifting to Non Renewable energy resources

We should cut our reliance

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~~on green house gases like CO_2~~ on non-renewable energy sources which ~~are~~ releases greed house gases like CO_2, CH_4, SO_2 etc. We should shift to renewable energy ~~resources~~ sources like hydel, solar, wind, bio and ~~elect~~ geo-thermal energy. and by promotion of SDG 7 which ensure clean and affordable energy.

Promotion of Global Forestry:

- Promotion of Aforestation and reforestation
- Degrading deforestation
- It provide 'carbon sink'
- Provision of SDG 15 life on land and forestry.

Promotion of Sustainable of Urbanization / Sponge cities:

- Promotion of 'vertical expansion' rather 'horizontal' as Japan did despite excessive earthquakes
- use of "porous bricks" to allow water to absorb by dam soil to support rain cycle
- Adoption of Japanese 'Miyawaki' technique to grow small patches of forests

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4. Promotion of sustainable Transport:
- Reducing the usage of private car usage
- Encouraging public transport, use cycles and 70% of people in Copenhagen travel by cycle
- Shifting of public transport to electric vehicles like government's initiative of Blue Electric buses in Islamabad and e-scooties.

5 Promotion of Education & Awareness:
- Integerating institutions like schools universities to educate people about global warming
- Cooperating with religious figures to talk on global warming as 'Jumma khutba' is good platform
- Use of digital media to construct people narratives for collective against global warming
- This all help at social level.

6. Others Efforts:
- Ensuring Solid waste management
- Getting International support through finances for capacity building
- Sustainable industrialization
- ~~Strengthening~~ Strengthening
- Strengthening Disaster Risk management

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