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! 🌟

There are several theories about the creation of universe out of which

Big Bang Theory is the prominent

According to this theory the structure of the universe emerges from expansion of gravity and Physical laws over time.

Singularity:

According to this theory the entire universe was inside a bubble. It was hotter and denser than It resulted and universe was created

Format of Galaxy

The universe grew from smaller than a single atom and is still changing. Expansion land cooling resulted, changing anti-matter destroyed survive and some matter

(b).

Urinary system

The urinary system filter waste and excess fluid from the blood to produce urine, maintaining the body's water, electrolyte and PH balance and consists of kidneys, ureters, bladder and urethra.

Structure and function of nephron

Nephron structural and functional unit of kidney. nephrons are arranged do along both cortex and medulla region. There is a cup shape stru present at pro end of nephron called Bowman's capsule. From Bowman's capsule there arises a long narrow tube, which is further divided into 3 parts
- Convoluted part as proximal
- long U shape part
- Distal tubule.

The function of the nephron includes fil reabsorbing and screting glutamate, carbohydrates and solutes.

(C).

Unbalanced Diet :

A diet which lacks all the essential nutrients of food in a proper portion is called unbalanced diet. An unbalanced diet example is one heavy processed foods, sugar drinks and refine corbs like (chips, soda, white bread, porstries while lacking fresh fruits vegetables, whole grain and sufficient proten.

Effects of unbalanced diet

While relying on a balanced diet is good for health but an unbalanced diet con lead to negative effects of human health. An unbalanced died in health leads to major health problems like obesity. Type 2 diabetes, heart disease, cancers and hypertension. It weakens the immune system and con be very harmful in a long run. One must see the effects of unbalanced died in old age.

Q3.

(a)

While Global warming cannot be reversed overnight but it can be slow and limited by reducing human emissions of heat-trapping gases and black carbon. Alternative methods to slow or reduce global warming have been proposed that are collectively known as "climate engineering" or geoengineering some geoingeering proposals involve cooling Earth surface by injecting reflective particles into upper atmosphere to scatter and reflect sunlight back to space.

(c).

Working of optic fibers:

An optical fiber transmits information as light, not electricity, using total internal reflection

Core → thin glass / plastic with high refractive index.

Cladding → surrounding layer with lower refractive index.

Jacket → mechanical protection

The

1. Light enters the fiber at a suitable acceptance angle.

2 - Inside the core, the light hit the core - cladding bound

3 - Because the core has a higher refractive index, light reflect back entirely instead of escaping

- The reflection exits along the fiber, guiding light over long distance

Working of a Mobile phone

A mobile phone is a two-way radio system connected to a cell network.

The coverage area is divided into cells. Each cell has a cell Tower.

The phone is always connects to the nearest tower.

Section - B

(a).

- Ahsan's brother's only daughter = Ahsan's

- That piece is the grandaughter of the wo

so the woman must be the mother of Ahsan's brother → Ahsan's Mother.

(b).

Given Data.

Ratio of Length : Breadth = 3:2
　　Speed = 12 Km/hr
　　time = 8 mins
　　　　 = 8×60
　　　　 = 480 secs or
　　　　 2/15 hr

find Perimeter.
Distance = Speed × Time
　　　　　　　　　 = 1.6 km

P = 1600 m
let dimensions
Length = 3n
Width = 2n

Perimeter
　　2(3n + 2n) = 10n = 1600
　　　　 n = 160

Area = 3n × 2n = 6n²
　　 = 6(160)
　　 | 153600 sq.m |

(C)

Given.
- Unit digit = Ten digits + 2
- Number × (sum of digits) = 144

Let ten digit = x

unit digit = x+2

Number = 10x + (x+2) = 11x+2

Sum of digits = 2x+2

∴ (11x +2)(2x+2) = 144

x = 2

Number = 24.