Dos and Don'ts for Generaral 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. :)

General Science and Ability

Q No 3

Artificial intelligence

Artificial intelligence is the new electricity. This is like electricity changed the traditional method of production of goods in industry and human lives. The skills of humans are used to be creative. Therefore AI is the new electricity of the 21st century.

(b)

CPU and human brain

CPU is brain of computer, it works like human brain. firstly, stores, sends and interpreates the information. The same is the case with human brain which also performs the same duties.
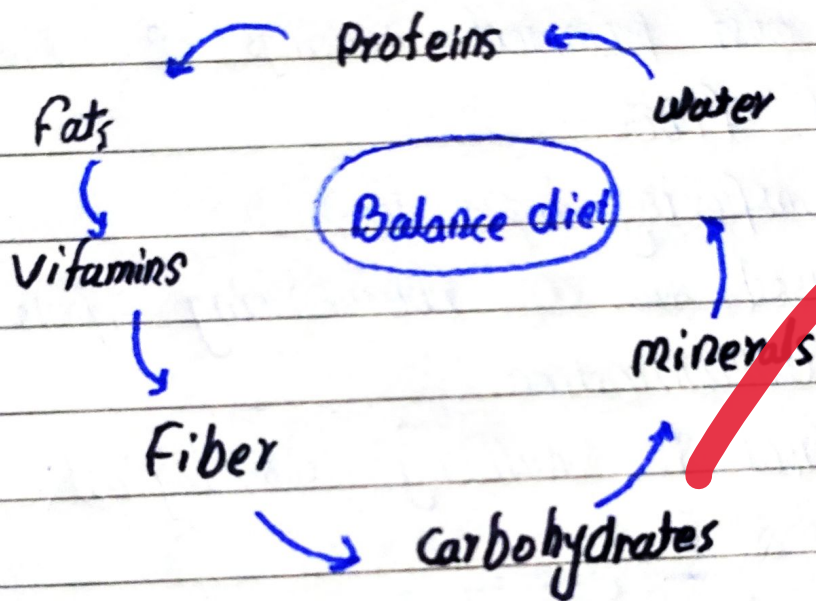
CPU	Human brain
Stores	stores information
Sends / processing	Convying information
interpreates information	understands
memory	long term / short term

Figure 0.1 working CPU / human brain

(c)

Balance diet

Balance diet means consuming varity of foods in the proportion of balance level. This includes:

Proteins

Fats

Water

Vitamins

Balance diet

Minerals

Fiber

Carbohydrates

Deficiency of vit.	Imbalance in body
vitamin A	Night blindness, Dry skin and eyes
vitamin B	Anemia / weakness
vitamin C	Scurvy (bleeding gums)

Figure 0.2 table of vit.

(D)
Optical fibers

Optical fiber refers to one of the most latest technologies which is being used to transfer information. Four most prominent workings of the optical fiber:

(1) Transfering information
(2) Used to send networking signals
(3) Communication
(4) used in military technologies

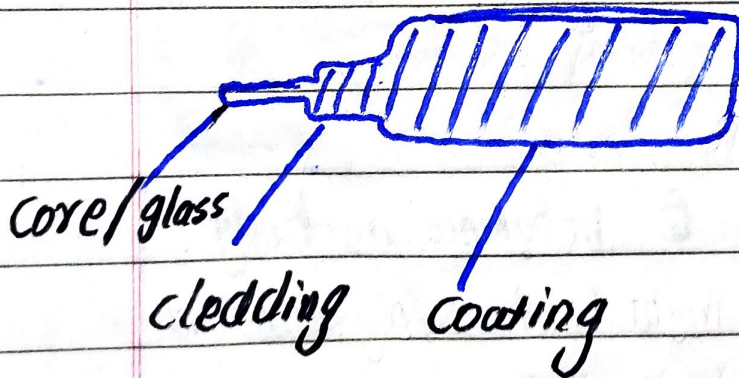Core/glass

cledding   coating

Figure. 0.3 digram of optical fiber

GPS

GPS stands for global posif
System. This was introduced by the
US Air force. It locates time, place and
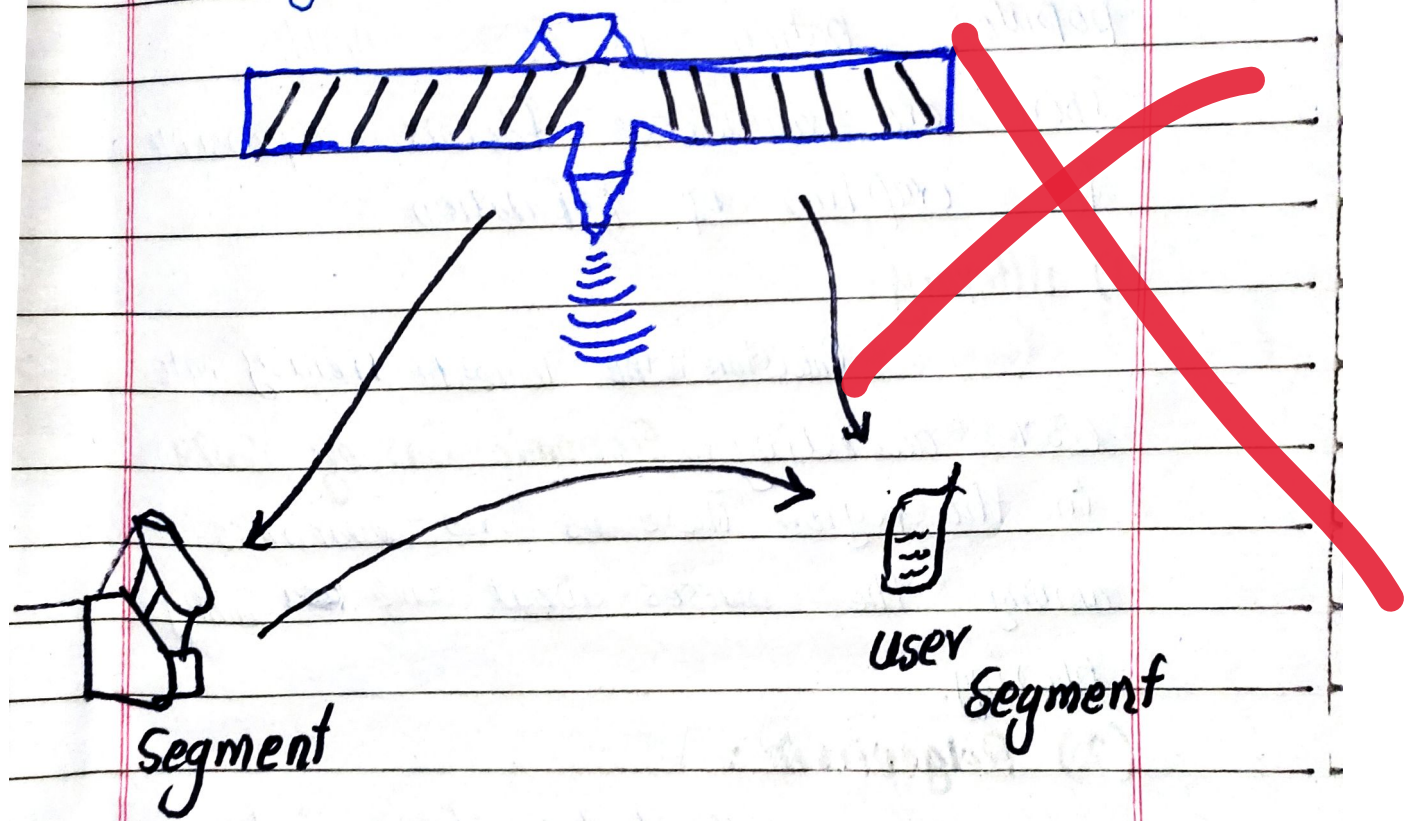objects. It takes help from 24
orbifing satellites.

Figure 0.4 working of GPS

Q. NO. 5

(a)

According to Pakistan Economic Survey 2024, Pakistan has **241 million population**. This makes Pakistan the 5th most populous nation in the world. There are numerous factors responsible for eruption of population.

(1) Illteracy:

Pakistan lowest literacy rate 63% according to Economic Survey 2024 in the region. There is no awareness among the masses about the family planing.

(2) : culture:

Cultural has strong influence over the masses. In various parts of the country birth control is considered one of the notorious acts.

(3) Religious factor:

Undoubtedly, Islam is one of the moderate religions. Islam has always adopted the best aspects of other civilizations. misunderstanding among uneducated youth and conservative scholars have always rejected the idea of birth control.

Measures

(1) Awareness:

Awareness among the masses is important to encounter the eruption of population. Moreover, this can be achieved after taking the religious class in control.

(2) 3 child policy:

Pakistan strictly impose three child policy. This will help to control the population.

(b)

Cyclones and Tornadoes

Cyclones and Tornadoes are two types of natural disasters. They are formed differently.

Cyclones	Tornadoes
Form over warm Ocean waters	Develop from severe thunderstorms
large-scale weather systems	Small-scale weather system

Figure 0.5 difference between Cyclones and Tornadoes

In 2024, Cyclone Hidaya was observed affecting parts of the western Indian ocean and Africa.

(c)

The Earthquakes occur due to the sudden release of energy in the Earth's Crust, causing seismic waves. This is usually caused by tectonic plates shifting or colliding.

Turky's Earthquake 2023

Deaths: over 50000 people

Intensity: The earthquake had a magnitude of 7.8 on the Richter scale.

(D)

Definitions	Definitions
Hypocenter	Point within the earth where earthquake produced
Epicenter	Surface point directly above hypocenter
Eye wall of hurricane	The ring of intense storm
Shallow focus	An earthquake that happens at a depth of less than 70 km
Parsec	An astronomical unit of distance

Section - II
Q.6
(a)

Ans:

- The ratio of Blocks A, B, C, D is in the ratio 4:7:3:1

- The number of A Block 50 more than the number of C block

- Numer of ^{B} blocks.

  → The number of A Block is 50 let the number of A block be 45

  → So, the number of b must be (15)

Therefore the number of B block is (15)

(b)

Pair of shoes 80$
with 15% discount
10% sale tax what is
the final price?

$$\frac{10}{100} \times 80$$

$$\frac{5}{50} \times 80 = 200$$

The final price is 200

(c)

Travels 42 km b/w 2 stops
average of 36 /hr

4 + 42 36 = 82

= 27.3333 km

Arrives at 4 p.m

(d)

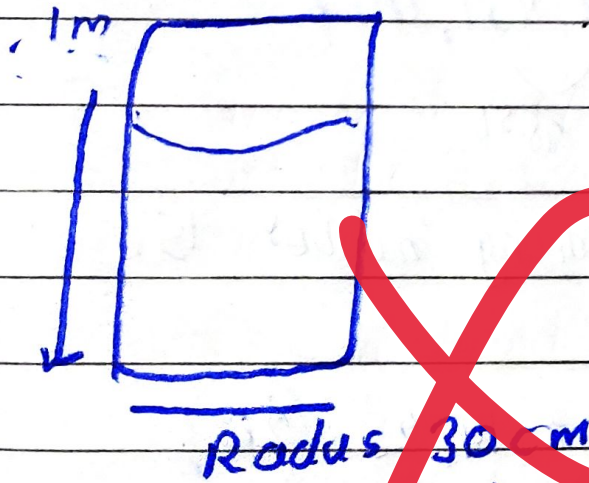(i)   white

(ii)   uninterested

Q No. 7

(a)

Radus 30 cm

$$\frac{1}{30}$$

ANS $\dfrac{4}{30}$ cm

(b)

Average of 3 boys 15

$$\frac{15,\ 15,\ 15}{3}$$

Average 3 : 5 : 7

Youngest (12)

12 years old.

(c)

8, 19, 52, 151, 447

11   33   48   156

wrong number 151

11, 13, 17, 19, 23, (29)

Prime number series the
answer is 29

(Ended)