Dos and Don'ts for General Science & Ability Paperi SA you've done well. Know that owledge is one thing and repreducing it in paper accoording to what's edale; represent he bareas texutaines rate of Chighligh fuer beruken overthet there can s to solve and question an per 5 mark part. wanage your time Enplosion in Vakistan og predata understand that your paper is look more scientific than So, add flowchafts and chagrams 5/4-000s off-your spellings and your grammar. but your expression will definitely create an Common are steps written and explained. Good luck for CSS 2025. You're gonna rock in Scanned with CamScanner sha Allah.:)

3. Lack of Education

A lack of education, particularly among women, results in limited awareness and often use of contraceptive methods aucotion often correlates with smaller family size as educated women and to morny later and have fewer children.

4. Poverty

In many rural and impoverished areas, Children are seen as an economic asset, Contributing to family income through labour. This perception leads to larger family sizes as a form of economic security.

S. Insufficient Family Planning Services

There is an inadequate access to family planning and reproductive health services.

Many rural and underserved urban areas lack the necessary refrastructure and resources to prince these services effectively.

6. Cultural & Religious Beliefs

Certain cultural and religious beliefs
discourage the use of contraception and
promote large families. These beliefs and
create bassiess to the replance and use

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· Employment Opportunities: Creating job
opportunities, especially for women, can help
in reducing the dependency on having many children for economic support.
many children por economic support.
- 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
4. Legislation & Policy Implementation
· Strict Enjouement of Marriage Laws: Enjoycing laws against early marriages and promoting the legal age of marriage can help in reducing the reproductive special women.
laws against early marsiages and promoting
the legal age of marsiage can help in
reducing the reproductive Stan of women.
· ropulation Control Policies: Implementing and
survivilles amed at population control,
enjoicing policies timed at population control, Such as providing incentives for smaller jamilies
>. Cultural & Religious bacagement
5. Cultural & Religious Engagement
Engage Religious Leaders: Working with religious leaders to promote the importance of family planning within the cultural of
Engage Religious Leaders: Working with religious leaders to promote the importance of family planning within the cultural & religious context.
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Engage Religious Leaders: Working with religious leaders to promote the importance of family planning within the cultural of religious content. Community Involvement: Involving Local Communities in designing and emplementing family planning programs to ensure Cultural Sensitivity and acceptance. Ideally a GS question should be Conclusionations
Engage Religious Leaders: Working with religious leaders to promote the importance of family planning within the cultural of religious context. Community Involvement: Involving Local Corromanities in designing and emplementing family planning programs to ensure Cultural Sensitivity and acceptance.

Date	
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education, healtreare suprovements, economic
incentives, legislative measures, and Cultural
engagement. By implementing three control
measures, akistan can achieve sustainable
population growth and improve the overall
quality of life for its citizens.

Differentiation between Cyclones & Tornadoes

Aspect	Cyclones	Tornadoes
		*
Delinition	lange-Scale air mass that	Small-Scale
	rotates around a strong	Violently rotating
	center of flow atmospheric	columns of air
	pressure	extending from a
		thurders from to the
C. State	Authorities and the second	ground
tormation	Over warm ocean waters,	Over land, usually
Hrea	primarily in tropical	in association with
	& Subtropical regions	severe thunderstroms
	() () () ()	- 10
Size	Hundreds to thousands of	lypically loo to
	Kilometess in cliameter	600 meters in
		diametel
		11. 10 6
Duration	Can Last for Several days to a week or more	Usually (as from a
	to a week or more	few se de to au
	146 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	lour

Aspect	Cyclones	Tornadoes
Wind Speed	119 Km/h to over 250 Km/h	Can exceed 400 Km/s
Structure	Composed of large, rotating Storm System with a well- defined eye at the center.	Funnel-Shaped
	Storm System with a well-	cloud extending
	defined eye at the center.	from a Humder-
		Strom to the ground
7	0	A
Impact	Heeks large geographical areas	Affects valatively
Area	Affects large geographical areas potentially spanning multiple countries	Small areas, often
	Countries	jest a jew KMs
0.1.111	r. L. v. J. L. V	Dissible to avalent
Predictability	Easier to predict and track due to their Size and longer	accomplant to predict
-	duration	accurately early form
	duration	Jackly
Examples	Huricane, typhopy tropical	Commonly Known
Examples	Huricane, typhoon, tropical cyclone	Commonly Known tornadoes
La la La	0	
Cycl	ones Observed in 202	4
	Add diggrams	
	Add diagrams	
- Me s	outh-West Indian Ocea cyclones like Alvaro (January) Causing da gascar & Mauritius res	M: Mil region
- Saw	L'amenue avina da	(January),
Mada	(January) Causing da	Dec tively.
771944	Vialet Tites 123	pezarezaj.
Austral	lia: Cyclone Kryilu unpac	ted Queensland
in/	ia: Cyclone Kirrily unpact	

	Date
(D5CC)	
How Earthque	akes Occur
Earthquakes a	ne caused by a sudden
release of ev	vergy in the Earth's
Crust, resulting	ng in Seismic Waves.
This release	of evergy Aprical
occurs due l	of energy ypicals
	Description
processes:	
1 To India Dla	Maya sand
1. Tectonic Pla	t. Movenenis
	and in Original Distriction
The ec. 115	rust is divided into
Several tector	nic plates that on the
simi-fluid a	isthenosphere below. These
la s constau	the move and interact oundaries.
their bo	oundaries.
	O Die Clafer mars dans la
· Convergent 1	30moaries: Places more wards
each other, ca	3 ovudaries: Plates move towards using one plate to be joiced (Subduction) or causing the
beweth another	(Subduction) or causing the
plates to crue	uple auch form mountaine.
· Divergent Bo	undaries: Plates move apart
from each of	ther, creating new coust as the Surface.
magma rice	the Surface.
· Transform B	oundaries! Plates Slick past orizontally, causing friction build up until it is u earthquake.
each other he	orizontally, causing Inction
and Stress to	build up until it is
released as a	u earthquake.
87 - T	

Date
). Fault lines
=> Faults times are practures in the Earth's Loust where significant displacement has occurred. Earthquakes often occur along these
Loust where significant displacement has
occurred. Earthquakes often occur along these
faults
The most common type of fault movement
mound faulting (extension) reverse
jaulting (compression), and Strike-slip faulting
(horizontal movement).
3 Volcania O. L. II.
3. Volcanic Activity
5) Earthquakes can also occur due to volcanic
activity. The movement of magina within
the Earth can cause the Surrounding rocks
to practure, leading to earthquakes.
4. Human Activities
3 Certain human activities, such as mining,
reservoir- induced seismicity from filling
reservoir-induced Seismicity from billing large dams, and geothermal energy extraction, can induce earthquakes.
earinguares.

below the Earth's sunta

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(ii) Epicenter

The epiceuter is the point on the Earth's

Surface that is directly above the hypoceuter
or focus of an earthquake It is the location
on the Surface where the effects of the
earthquake are usually most strongly jett.

The epiceuter is typically reported in terms
of geographic coordinates (ratifude & longitude)

(iii) Eye Wall of Hurricane

The eye wall of huricane is a ring of whense Hundersforms that a sound the calm center of the Storm, Known as the eye. The eye wall is charaterised by the Strongest winds, haviest rainfall, and most Severe weather conditions within the huricane It is the most clangerous part of the Storm, where the maximum sustained winds and Storm surge occur:

(IV) Shallow Focus

A Shallow pocus earthquake is one that occurs at a relatively shallow depth within the Earth's crust, typically like that to KM below the Surface. Shallow has earthquake are more likely to carse Significant Surface damage due their proximity to the Earth's Surface.

(V) Persec

in astronomy to measure, vast distances between Stars and galaxies. It's equivalent to about 3.26 light-years. For reference, a light-year is the clistance that light tracks in one-year, which is roughly 146 toillion KM.

Q4 (4)

Bile: The liver's Digestive Powerhouse

Bile, often referred to as "liver juice" is not quite a juice but a vital fluid produced by your liver and Stored in your "Gallbladder". It plays a critical role in digestion, espicially for fats.

What is Bile?

A yellowish-greenish puid produced by liver. It is composed mainly of water (around 95%) but also contains emportant components like:

Bile Salts: These emulsify bats, breaking their down who smaller particles for easts easier digestion and assorbtion.

Date
Bilirubin: A yellowish waste product from the
breakdown of red blood cells. Bile helps
eliminate bilirubin from the body through
breakdown of red blood cells. Bile helps eliminate bilirubin from the body through feces (giving Stool its brown color).
Cholesterol: It helps with the formation and stability of bile.
and stability of bile.
Lecithin: Hnother emulsifing agent that aids
Lecithin: Another emulsifing agent that aids but digestion.
What Does Bile Do?
Ch Night Oille in him in to
Fat Digestion: 15165 main function is to
Drawer land and all all and all all and all all and all all all and all all and all all all all all and all all all all all all all all all al
Fat Digestion: Bile's main junction is to emulsify jats in the Small untestine. This process breaks down large jut globules into much smaller parties, allowing enzymes to work more efficiently and encreasing jat absorption by the intestines.
to work more ellicity and encreasing Late
absorption by the intestines
Waste Elimination: Bilirubin, a by procluct of
red blood cell breakdown, is eliminated
through bile, helping detoxification.
Autition Nutrient Absorption: Bile an also
and at the absorption of certain vitamins,
Like Vitamin K, which is essential for
bloch lotting.

Date
Bile & Your Health
proper digestion.
proper digestion.
29 Problems with bile production or flow can lead to digestive issues like:
can lead to digestive issues like:
- Fatty Stools
- Indégestion
- Pain in upper right abdomn
- Pain in upper right abdonn - Gallstones (formed for holesterol in bile)
04 (6)
The Role of the Kidney in Excretion
The Kidneys are vital organs in human
body responsible for maintaining homeostasis through the regulation of fluid balance, electrolyte levels, and the removal of waste products. Their primary role in the excretory system is to filter blood, remove waste products and produce wrine.
levels, and the removal of waste products. Ineir
primary role in the excretory system is to
filter blood, remove waste products and
produce urine.
Structure of the Kidney
Each Kideny contains approximately one million
Each Kideny contains approximately one million units called nephrons. Ein nephron consists
Q:
ν

	Date
Glomerulus: A network of	capillaries where
Glomerulus: A network of blood biltration begins	
Bowman's Capsule: A cup that encases the	-shaped Structure
that encases the	glomerulus
Tubules: Where reabsorption	n and secretion processes
Tubules: Where reabsorption begin.	
- U	
Frictions of the Kidney	1 in Excretion
	1 A PY () () () () () ()
	D. China Aril Com
Reabsorption Secretion	Regulation Acid-Base a Electrolyte Balance
tiltration	Detailed to
	V
pr	Regulation
	of Blood
Excretion forma	fresure &
Waste	Volume
V 10 4 D S	
The Kidneys play a Cruc	ial role of encretion
by hiltering blood, resabs	
Secreting waste production	of Down a wine. Thereby
contributing to the everall	homeostasis of the
	The state of the s
boay.	

	Date
Q4(C)	
Solid Waste	2 Mangement Methods
Solid waste	management anvolves the collection,
	and disposal of solid waste
materials	generated by humans activities.
Effective n	navagement is essential jor environmental empact and promoting th. Various methods are employed
minimizing	environmental impact and promoting
public healt	th. Various methods are employed
in solid i	vaste management
	V
(i) Land ills	
land fills or	e designated areas where solid
waste is	disposed by burying it. Modern
landfills are	disposed by burying it. Modern engineered to inimize environmental
Impact.	
(ii) Incineration	
- 25	
Incineration	envolves burning Solid waste at
high tem	ou ature, reducing its volume and
generating	envolves burning solid waste at occature, reducing its volume and energy.
Ciii) Recycling	
Puline	involves and be expected of
Recycung	avoires collecting, processing, and
resising r	involves collecting, processing, and materials Such as paper, glass, plastic, als.
and mere	ws.

	Da	te
) Comp	osting	
Compost	ing is a biological decom	position of
Organi	c waste (such as lood scra	ps & yard waste)
into	rupent-rich soil amendi	neut
J) Area	robic Digestion	
	obic digestion is a process u	
break	down organic waste in	he obsence of
Okygen	, producing biogas & dige.	late
<u> </u>	Constant	
WI) W	ste- o- Energy (WTE)	
1110	to to Francisco	. 1
	te-to Energy pacilities con the marrials it o usable he	vert non-recyclable
Luel		
and		telaction, qualitation,
- date	gro sis.	- b
(Vii)	Mechanical Biological Treatm	neut (MBT)
MIS	I Combines mechanical sortin	g and biological
tree	atment processes to separat	e recyclable
	aterials and treat organic u	saste.
1433	Carlbara L. Dillian	78.0
Cony ?	Sauitary Landfilling	2 (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4
	Similar to toaditional landfills	but with
	uhanced engineering and mo	
	practices to prevent environm	ental contamination

Date
The Ideal Approach
The state of the s
2 Recueles
Recycler
Rouse
Reuse Reduce
Bu loople 1:
- 109 implementing a combination of these
subsidelles, we can move towards a more
By Implementing a combination of these Strategies, we can move towards a more Sustainable Juture for solid waste management.
Q4 (d)
44 (4)
(i) Anaemia
C. Findemia
Angenia
Anaemia is a medical condition characterized
by a deficiency of red blood cells or hemoglobin in the blood, leading to reduced oxygen transport to tissues and organs.
temoglobin in the blood, leading to reduced
organs.
- Lau be caused by numrimal
aeficiencies (Such as Iron, Vitamin 1812,
01 folate), Curonic diseases, bone marow
Causes: It can be caused by mutritional deficiencies (such as Iron, vitamin BIA, or jolate), Chronic diseases, bone marrow disorders, or genetic conditions
(ii) Appendicitis
(11) Appendicions
Appendicitie is enlannation of annualis
Appendicitis is enflammation of appendix, a small pouch attached to the targe intestine, It is a medical emergent that requires
It is a madical amora that require
It is a memal megaline

	Date
a prompt treatment.	
Course: promobilitie orten	that the to
Causes: ppenditis of ten construction of the appearance of the app	dix by cal
bereial growth and	mes, wasing to
ii) Spleen	
The Spleen is an organ lo	cated in the
upper left part of the	abdomen, under
the mb cage. It plays in filtering blood, stori	ng latelets, and
immeine responses.	
Liv) Myopia	
Myopia, comony Known	as near-sightedness,
abjes are serverail	eye where close
ispear blurred.	
Couses: Myopia occurs when	the eyeball is too
Long relative to the the Cornea, and long	joursing power of
Cornea and lens one	
(V) Isotones	
Isotones are atoms of	different elements
that have the same nu	uber of neutrons but
different numbers of pro1	ons, resulting u

	Date
different atomic mu properties.	unbers and chemical
properties.	
Example: Carbon 0 (6	protons & 6 neutros) and
Nitrogen-13(7 protons 8 6 nutrons are
isolones becau	protons 8 6 nutrons are use they have same numbers but different numbers of Carbon 8 7 for Nitrogen)
neutrons (6)	but different numbers of
protons 6 for	Carbon & 7 John Nitrogen)
Section II	
Jecijoti <u>II</u>	<u>- </u>
Q7 (a)	
The radius of the	cylinder is = 30cm
The height of the	inder is = 1 m = 100 cm
The volume of the	ylir der is = $\pi r^2 h$
V = 3.142x (30) x (100) cm	
V 2 31124 @ 0 3 1 1 2 1	
$V = 889743.1 \text{ cm}^3$	
07	
(b)	
Average age of	the three boys is 15 years
$\frac{3x + 5x + 7x}{3} =$	= 15 -> eq(1)
Simplify:	
13 K =	
5x = 15	
$\boxed{71 = 3}$	

-	7	16	(1	,
(Y	70	7	1,

Given:

The ratio of blocks A: B: C: D is 4: 7:3:1

The number of 'A' blocks is so more than the number of 'C' blocks

A=4x, B=7x, C=3x, D= 1x=x

=> "A" blocks is solmore than the number

The complete solution of the number of the n

4x - 3x 50

=> The number of "B" blocks = 7x = 7(50)=350

Q6(b)

Original cost of 80\$

Apply a 15% discount

Discounted = 80 - (0.15x80)

= 80-12

D.P = 68

Apply 10%. Sales tax

Sales tax Amount = 0.10x68

= 68

Date
For final price adding sales tone to discounted price
discounted price
Final Price = 68 + 58
F.P = 14.8\$
F.P = 14.8\$
Q6(c)
4000
Given:
Distance = 42Km
Avnage Speed = 36 km/hr
Time = <u>Distance</u> Speed
Time = 42 Km
T = 1.1667 hr
Conversion: 1.1667 × 60 mins = 7 smins=1hourlowing
CONVOISION: 11661 x 60 mins = 15 mins=Inouriomin
D'The train departs at 4:00 PM
add 1 how 10 mins to 4:00 PM
4:00 + 1 hour \$ 10 mins = 5:10 PM

	Date
Q6(d)	
(i) teninsu	perted = Superitured
(ii) hweti =	white
	1