Dos and Don'ts for Generaral Science & Ability Paperstion 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 Pwould like to highlight. 404. Ave marks parthredures at least 2 and at whax 3 sides of a pape. Know, that there can be visited three parts of a question and their marks are divided accordingly. So, address all of them in a just mariner. 2. Focus on time management. You get 35 prinutes to solve one question and about 8 minutes per 5 mark part. Manage your time accordingly locks marked 3. You need to understand that your paper is supposed to look more scientific than theoretical. So, add flowcharts and diagrams where required where of B blocks. 4. Your handwriting and neatness can be really impatiful. 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 we take denote Good back for CSS 2025. You're gonna rock in sha Allah.:)

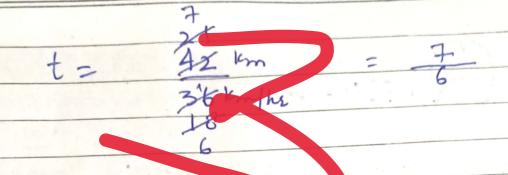
	Date:
	Hence the above satio be comes
	4a: 7a: 3a: a
	Here we first find the value of a.
	There we give the same of the
	Kom above dala
	The work of the state of the st
2	4a - 3a = 50
-	10-50 = 50
	a = 50 (2)
	By putting this value in evuetion D we get:
	was get.
	we joint the second of the sec
4 11 1	4(50): 7(50): 3(50): 50
	*
	. 250 : 150 : 50.
	200:350:150:50.
	. 2 1
	Hence the number of B blocks
	350

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monocold of g
and the same of
-
-

	Date:
	Adding Sales ton to discounted amount we get
1	amoint we get
	amoint we get
	68\$+6.0= 74.8\$
	Hence Inal Price of the pair of
	shoes is 74.8 USD.
-	A Tea: knowledge he havelen
C .	
	two stops at average of 36 km/hr.
	If train departs by 4 pm. when does the train arrive?
	Data =
	and the second of the second o
	Distance travelled by Train = 42 km
	A verage speed = 36 km/hz.
	The state of the s
	To find = Time 02 t= ?
	Solution:
	- 1
	The formula of speed is
	S= d
	36 k /hi = 42 km
10000	1m - 42km

t.

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-	5 B	n1	0	٠				
	\mathcal{L}	144	4	'n.		-	d	-



t= 1.16 hers.

to calculate the time taken to travel between the two stops

Time = Distance:/19peed

Time = 42 km / 36 km/h

Time = 1.17 hours (approximately)

Since the train departs at 4 pm, we add the travel time to find the arrival time:

Arrival time = 4 pm + 1.17 hours

Arrival time = 5:10 pm (approximately)

So, the train arrives at approximately 5:10 pm.

	Date:
C.	What will be the suspece area in volume of a sphere If it has redius of 7m?
	Data:
	Padius= 7m
	To find = Surfice area and Volume of a sphere
7	Solution:
	Solution: Formuls of Surface area = 4 Tr22
	Formula of volume of sphere = 4 Tr3
	Surface alex of Sphere=
	$= 4\pi 2^2 = 4(3.14)(7)^2$
	$= 4 \times 3.14 \times 49 =$
	$= 12.56 \times 49 = 615.4 \mathrm{m}$
1	

	Volume of sphere:
	= 4 123
	4 3.14 (7)3
	$=\frac{4}{3}3.14(7)^3$
	4 × 3.14 × 3.43
	$=\frac{4 \times 3.14 \times 3.43}{3}$
	3
	1 1077
	= 4 x 1077 3
	= 1.33 x 1077
Ę,	= 1432.41 m.
	12/1/1
	So, the volume of sphere is
	1432. 41m.

	Ashry's share
	$\frac{4}{12}$ x $\frac{4}{3}$ $\frac{2}{5}$ \frac
	12
Maria I	So, the Share of zain, Aslam and Ashraf is 720, 1000 @
	and Asheaf is 720, 1000
	2520 hugees respectively.
9.	A man kevels over the path of a
	light-angle kingle heving base and
	hypotenesse 4 and 5 kilometers respectively
	After a complete bound he continues
	in the same direction for okn and
	then hours at 80 degree and continues
	for another 8 km. How long he has
	Kavelled and how far he is from
	his starting Point?
	Data:
	kon und trist = 6 km / 8 km
	man kavelled first = 6 km 8 km
	After 90 degree tuen
	After 10 agree 1 km 6 km
	he travelled = 8 km 6 km
	To find distance from Starting point.
	10 find colsymos
	501:
	Hypotenuse = Perpendicular
	Hypotenuse = Perpendicular base

Date:_ = 1.33 km. He is 1.33 Km Starting point.

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(1	late.					
,	RLLE					
after a	not notice	٠,	-	-	 -	_

Part - II

Section - I

Q-No-3

Discuss covalent bond in a water molecule?

Chemical Bond:

Chemical bond is an electrostatic force of affection between two atoms.

Why do atoms form Chemical Bond:

Atoms form Chemical bonds in Older to attain Strability or inert gas electronic configuration.

Except Hydrogen and Hellum all other atoms form Chemical bond to complete octet (Delectrons) in their dulin of Stable than unbonded atoms.

Bonded atoms possess less nount of energy than unbant atoms.

Types of chemical Bond: Date: Covalentbond Tonic bond Floret Ico-ordinate bond Chemical Bond in water molecule Waler molecule Consists of and one oxygen two hydrogen atoms atom. The Oxygen on airs 6 electrons it forms with online most shell son it forms Son it forms covalent bond with we hydrogen atoms to form water molecule. the formation of chemical bond in water is illustrated below 02

Date:

In this type of doping four electrons
of VA group forms bond with

four electrons of 1v. However,

one electron remains unbonded.

Oh helps in the conductance of

electricity Hence; it is called

the donor doping.

2. Acceptor Doging:

In acceptor daping?

We impurities from 111A group are

Added to intrinsic semic atous

of IVA clements. Here three electrons

of Al are involved in the for bond

formation with three electron of

Selenium, however, one electron of

Celenium Remain unbind; it wastes

a hole in the extensic semi
conductors which is surpanible for

the conduction of electricity in

acceptor daping.

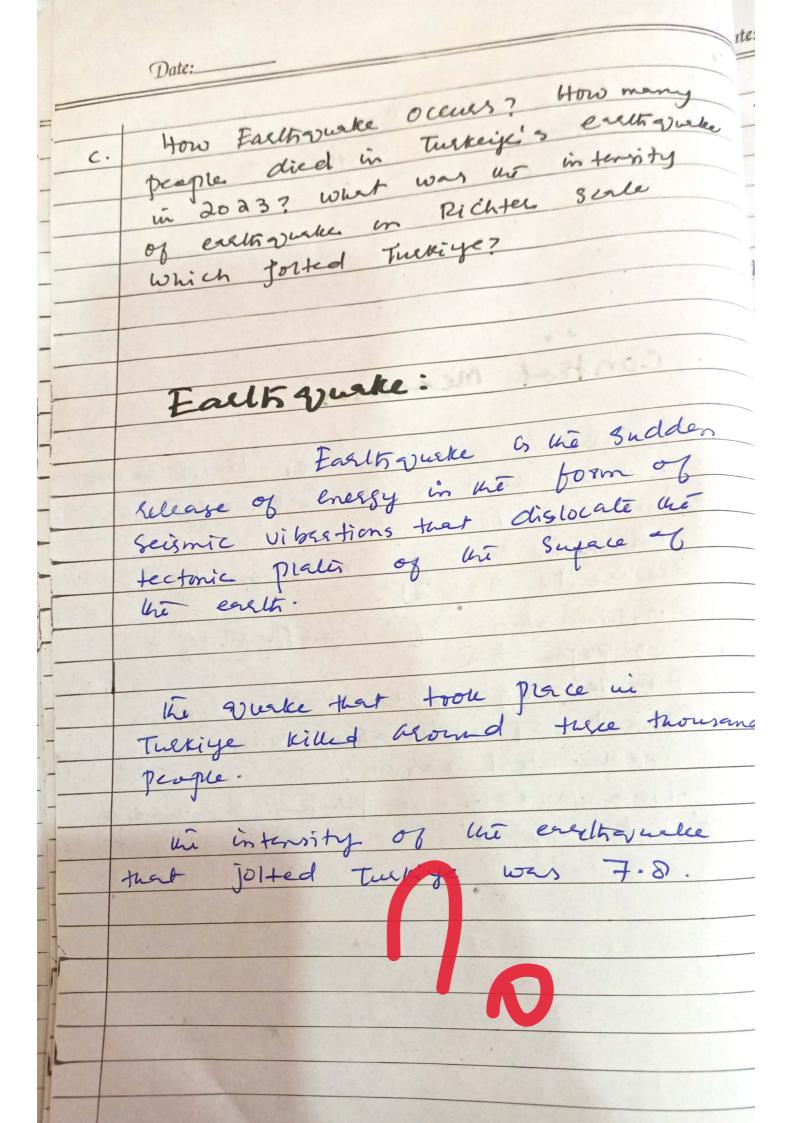
d.	THE CALL OF THE CA
	in exedication of Polio in Pakistano
	Polio
	Polio is an infections
	disease caused by polio virus. It causes the parelysis of the
	It causes the paralysis of the
	body.
	Symptoms
	Tenes, Chillia x 1:11:
	Joyo Visua Carra
	with a matter
	to the muscles of
-	respiratory systems are Stiffed it may
	hernet in deeth of me patient.
-	
-	Treatment:
1	the state of the s
-	1- Inactive Poyo vaccine: IPV
	It is injected
	in alms via syringes or is injected
	in deips to be infused in to
	human body.
	The state of the s
2	Oral Polio vaccine (OPV):
	It is ad mistered
	olally to the children under win
	the state are

Preventive measures Polio viens is mostly terminate via faces. and lock of samitation is mainly supposible for it sanitation conditions must be improved: Hands must be wested ofter using washrown Sufe drinking water. Polio vaccine Polio Exadication Challenges in Pakistan Following are the main Polio viens in Pakistan: 1. Cultural Causes 2. Religious Cruses Security Concums 4. Lack of Ed

C.	State Some of the merits and
	demerits of global walning.
7	
	Following are the merits and
	demerits of global warning:
	Mar: L.
	Merits: In some areas global warming regults in the affluence of crops-
1-	in the affluence of crops-
N. J.	
>-	It ensures bood security.
3-	It government as a hisuit of im make
	the government as a result of mineral
Sect of	Da mile:
	Demerits:
	Demerits of Global warming
	The same of the accuse of
	from it here are given below:
1-	Trequent heat weves.
	Carriages:
2-	Reception of Grecies.
	Glacial outburst
31.	Glaual Europers
1	Flish froods
4-	10000
5-1	Prise in Ser level.
4-	Principal Constant

	Date:
6.	Global walning induced diseases
	Global warning induced diseases. Such as heat stroke.
	Q. No. 5.
	O
9.	Patistan a the fifth most populous
	country of the world - what are
	in Pakistan? What can be the
	con tool measures?
	con not me suc,
AREA	THE DESCRIPTION AND ADDRESS OF THE PARTY OF
Tan a	Population Explosion
	Population Explosion As per the census of 2023,
	the population of Pakistan Strads
	at whooping a 40 million with annung
	growth tele 2.570 making It me
	fifth most populous country of the
	world-
	PARTY AND THE REAL PROPERTY AND THE PARTY AN
	Causes:
	Following are the course of
	Papulation explosion in Pakistan:
1-	Early merlinges
2-	Frequent Pregnancia
	Desire for male Chila
	lack of Conkic ceptimes.
5.1	lack of Family Planning.

-	
6.	lack of education.
	Negligenie by Sovelmments
0	- Poverty
	a configuration on Richard 1
	to the test of the state of the
	Control Measures:
	De de la la la health sector
1.	Budgetery allocation for health sector
7.	Asticle 25A to be implemented in
	full Spirit. Minjaum age for melriage be
3	dubled as 21.
A	of Salespeed
4	
	Duaila bible
5.	(mad of education
7	1 cated marks.
7.	vilxant hole be
	in this regard.
-	



Date:
d. Define the following teams.
Lh. Dava Ka
epicente is cread hypocenter.
the point second
epicente is crued inflorence
Add diagram to show
F Dicembe
Epicente The point just below
me the four where first stide
takes price is called epicenter.
The state of the s
Shellow Fours
When we depth of
12 1/2 1/2
called the Shallow forms.
Passee:
Parent is 145 a Kanomical unit

is

9+

of distance. light years. 1 1 5.25