Dos and Don'ts for Generaral Science & Ability **Paper** there, you've one well. Know that iring mowle lige is one thing and Range Pur La CACORDING, towhat's edisanother There are diewthings rks partirequire at least branchet 3 y lescoda papa 18 Knew (1) raccording vs So, address all time management. You get 35 (2) eminutes to sowe inequestion and abouted water Cause land theoretical. So, add flowcharts and diagrams Thyheretrequired. is another Ming and neatness can be mpactful. Appid cutting pand overwriting rs on your spellings and y there's no deduction the (6) tout your expression will definitely or eatered population As the issues Partiel analytical ability question that a 5 mark part requires all steps written and explained. Good luck for CSS 2025. You're gonna rock in Scanned with CamScanner sha Allah.:)

floods of 2022 and Super flood 2010:
- Botho the floods week havor in the country ?
Submerged many populated areas, Guse fatalities,
Submerged many populated areas, cause fatalities, diseases, economic crisis, and clastroyed the bread and
- butter of a large sector.
- But, the floods of 2022 were not that devoutating
which the super floods in 2010 re.
The former floods caused an estimated loss of 30
Dillion dollar to Pakistan - according to the report of
NDMA, While UN Report showestimated it approximately
abillions.
loss of 100+ billia dollar to Pakistan's economy.
· P There were also a difference in the fatalities rate
- of both major floods.
- As the Super floods were the major in the Country, So,
- the institutions were not that much prepared to Combat
- it - While, the floods of 2022 had been easily over-
- Comed by the government.
$\mathcal{O}_{1}$
Role of NDMA:
NDMA (National disastor management Authority) is  Daving an essective sole since its actablishment. Their
Playing an effective sole since its establishment Their. Role is Praise meeting at the time of disastors, especially,
flood. During the floods of 2022 and 2010, NDMA Dlayed
on effective sole through different ways.
on effective sole through different ways.  (a) Evacuated the people from effected areas.
(b) Provide fixst aid to the ctims of flood.
@ Build shelters in the Safer places for floods effectees.
a Continuously instructed the people segarding the
- flood.

(b)
Star:-
· A star is some-thing that is stationary in the space.  · Which has their own light.
· Which has their own light.
· larger in size and always natural.
Millions in numbers.
e Example of stare is Sun, Betalquee, siri-A elc.
· At the end, it will either Converts to black hole of a
white dwarf formation.
John Charles
Planets
· Anything in the space sevolving around a star is planet.  · Planet sevolve in a fix orbit.
· It reflects the light of a star, because it has no
· Some Deneti are small and some are larger enoughti-e
dwarf planets and big planets.  Our & solar system has eight big planets and five dwarf  Planets - yet discovered
· The fate of a planet defend upon the star's gate
oxound which the planet sevalues
Makemake, Haumea, Seris (Davarf planet + Big planets) esc.
Makemake, Haumea, Sesis (Devast planet + Big planets) etc.
1:80 Chall of Charles Have the Country to a black
Life cycle of a star: How it Converts to a black
During which, the star Dasses through three Dhases
The life of a Star is about 8-Blobillion years.  During which, the Star passes through three phases and at the end it Converts to either a blok
black hole or a while dwarf formation occurs. The Phases
of the clas age:
(1) Main Sequential Stage:
(1) Main Sequential Stage:  A Stax from the time of birth to till 6 billion  Years, Remains in this stage:
years, remains in this stage.

@ Giant Shift:
The second stage in which a stan Remain's for about
two billion years!  Betaljuce, la star is now in this phase.
Betaljuce, va star is now in this
B D 1 C 1 Dage
B Red-Giant Phase: The last Stage of a Star's life is this one.
· Sixis - A is entered to sed Grand Phase.
SIXIS - A IS WITHOUT
Black-hole formation:
o Not avery clas have to be converted to plack note, some
are anyworld to white dwarf as well just like planers,
Some chase are too Dig and Some are some
the small stags Converts to white dwarfs A stan and
either expand, or Contract - the small stars adopte the
latter status and upon Contraction a big-bang rappers
and the white dwarf formation takes place. The future
of sun is also of the white dwarf.
. The charce that are too big, expanding Continuously.
This expantion is going throughout the life of class and it Continuously convert its own stop to planets of its body.
it Continuously convert its own start to planets it's body.
- Il alleration the Planets and recomes Digger enough
Of chase chase that too Dig
the star and an experior occur - with the
der. Center of the Star Converts to a black
hole some of the Plan parts of Staro scatters
on case of small nistars, the center closes upon itself
In Case of small no -, the Center Closes upon itself
and in bigger stars, the center is so dense that it  Converted to black hole.
Converted to black hole.
Diagram?

Q4 : C Chemical bondings of elections (sometimes more than one) between the atoms. . In Chemical banding the atoms Share transfer the Electrons from their outer-most shell. Themical bonding is of four kinds: 10 lonic bond and 6) Covalent bond and 6) Metallic bonding. Why atoms form Chemical bond: Every system and every body in the word tries to many different approaches. So, in parallel to this, the atoms that are unstable independently, trying to achieve Stability in nature, atoms form Chemical bonds. For Purpose, the atom either lose electrons, gain, or share the electrons. In Chemircal bonding, one atom lose electron and the other would accept that . Examples: Nacl, CaCoz, Hich, Oa etc. Which Octom will form a Chemical bond These age two sules to attain statisty: Despot sule and Octet sule. The atoms having valence relections less than eight, tay to achieve and attain Stability by completing eight electrons in its valences—is it's valence shell is not the first shell. In case of first shell as a valence shell, - the atom would try to retain two electrons in it to steeble. The atom: with a single shell, like hydrogen, need only only one electrons for stability and the atoms like: oxygen, Chlorine etc, need different number of electrons to complete eight electrons in valence band for stability. · There are several nobel atoms that do not need any bond because they are stable- Examples of which are Helicim lone-shell with two Electrons), & Neon, Argon, xenon etc has eight 2024.08.21 01:19

Elections in Valence band.	
Structure of water: "H20"	
. In water "H20" the Covalent bond formed by the	
Sharing of two Electrons by oxygen atom with two hydrogens.	
atoms each having one electron.	
· In Hydrogen atom there is only a single lone pair	
while oxygen atom has two lone pairs and two bond	
paix electrons.	
· When the Hydrogen atoms Shake their electrons with	
a Single oxygen atom, a sepulsion between lone pair and	
De Change Daiss of Elections took Diage -	
Due to this sepulsion, the bond pair has been	
Shifted at a specific angle and in H2D-1hes angle	
is 109.5°.	
Structure"	
(H)	
$H^* + H^* + {}^*O^* \rightarrow {}^*O^*$	_
· With the Shaking of electrons in water, both Hydrogen and oxygen atom acheive the state of stability.	0
oxygen atom acheive the state of stability.	
	e
	. •
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G4:0)
Conductors:
· Anything that allows the flow of Electrons is Conductor.
or to conductor is that, which electric
Cukrent Passes
· It would be formed of metals.
· 9t Contains tree electrons.
· Example: Silver, Copper, 1800 etc.
. 6
Semi Conductors:
· Semi-Conductors lies between the Catagosy of Conductors
and insulators.
· It allow electric eunent sometimes to Pass through it, while
Sometime it does not allow.
· Mostly formed by the dopping from other groups i-e
adding elements from the non-metal and metalic groups.
· Examples age: Diode, Legisters etc.
· Current is not passed through it all the times.
Presentation?
Metal:
· Metal is everything that allow current to pass through
it just like Conductors. But the difference is, Sometim
metals are more sensitive to heat and some are less.
· Metals age ductile and shiney
. Not all the metals once used as Conductors
· Examples ase: Gold, & Lead, Silves etc.
Plastic
· The word Plastic drived from the Greek word "Plastekos"
that means to shape and mould.
. Prastic is widely using material of the word.
· All Plastics are insulator in nature
· Examples of plastics are: Shopping bags, Puc etc.
Crampies of plastics and Staffer
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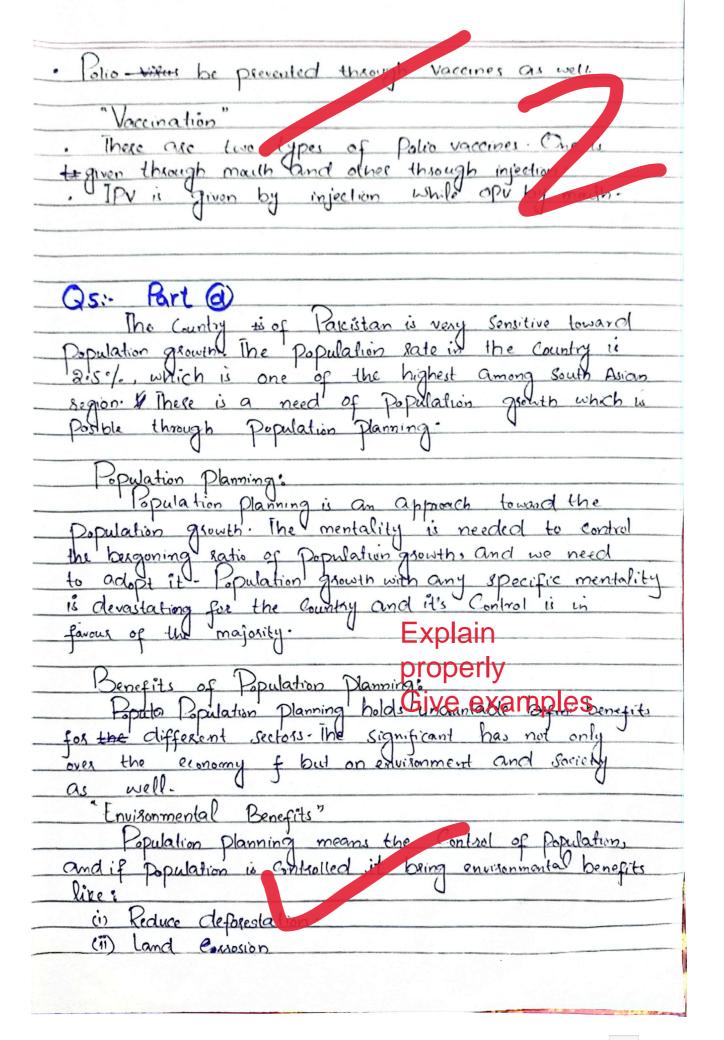
	"Cesemies"						
	Cesemics	ase	those m	aterials	formed	from cla	ay when
	heated on	hig	b degree	temper	atuse.	J	J
	This be	ome	hard enou	ight y	hat are	even clif	ficul t
	Cesemies  Cesemies  heated on  This becat			0			
	Cesemics Examples	aso	Olaha 00 u	used	because	OF PLS	toughness.
<b>b</b>	Examples	AC (	Secondary Old	· Dist	Cups, T	iles esc.	U
	Champles	1	exerno care		,		
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				**************************************		2024,03	3.21 01:19

Q os:- Port Part (a)
Raclio activity:
· The spontanous decay of an element to through
Radiations is known as Radioactivity. And the element
18 said to be Radio-active Element.
· The life-span of this decay sanges from microsecondis
to -thousands of years
· Discovery:
Henry Bacquisel and Massie Kovsi discovered Radioactivity
in 1907.
Definition:
Radioactivity is the Process by which an unstable
nucleus release energy by means or radiations.
Examples are: Uranium, Thorium et.
· Radioactivity has several good prects but alot of
threats on human health, atmosphere, and ecosystem.
Types of Radioactivity:
These are two major of Pachoactivity: one
is Natural Radionativity and other one is astificial Radio-
activity.
"Natural Radio-activity"
. By natural sadioactivity we means that the sponton-
ous selease of energy from any unstable nucleus.
· This can happen anywhere and in everysituation.
. This type of sadioactivity is can't be Controlled easily.
· Most of them are harardous for the life on earth.
A I I I I I I I I I I I I I I I I I I I
activity.
· Mostly used in Nuclear Reactors.
Examples are Usanium and thosis

Astificial Radioactivity
- Artificial Radioactivity is is withat when a stable nucleus
is bombased with particles, the sadiations emitted age
Astificial Ractio-activity.
. The stable nucleus is sombased with charged
Particles i-e &-Particles B-Particles, and Sometimes
7- Particles (Chargeless Particles) as well.
· Examples are: Boss, Magnesium etc.
J
Qs: Part (b)
"Polio": 08 "Polio myelitis"
· Polio is a disease caused by virus.
· Mostly infected the infants and Children upto
the age of 5.
· Polio visus attacks Children because of the weat immune
system. It was one of the uncurable disease of 20th Century.
Symptoms"
Symptoms of Polio patient is headache fevers
Stigness, imbalance, and some throats et-muscle pains
fatigue.
Causes"
Polio is Caused by many ways the major one
is by touching the feaces of infected child, other
Causes are sneezing and Coughing: Sometimes eating
Contiminated for of and Okine Continuated water Can
Orlso Cause Polio-
Revention ?
· Revention from Poliovisus is possible only through
Cleanliness, and eating healthing food, and okinking
Clean water.
· Don't be in touch with with the effected person.

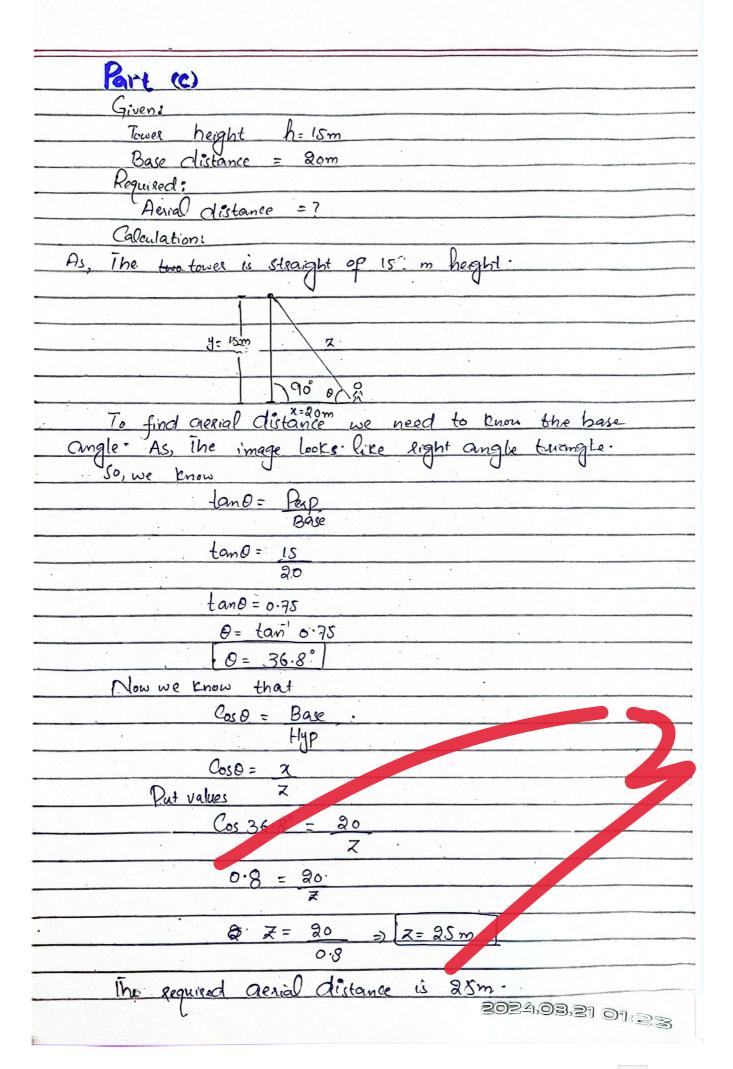
Explain properly





(iii) Reduce Carbon emmemission:
(iv) Roduce the emission of GHGs
Economical Benefits"
O Population Control has certain meaningful benefits
- Reduce the busdaen over economy through
ci) Reduction in Poverty
(ii) Can increase the GDP of the Country.
(iii) can reduce the dependency on foreign aids. and exports.
Social Benefits" Population Planning has several Social benefits likes
(i) Produce employement
(ii) Well education opportunities.
(iii) Reduce Osime Satio.
Agriculture Benefits"
Along with Social, economical, and Envisonmental
for Agriculture lector as well:
(i) Increase the land for Cultivation
(ii) Habitate for wild life.
(iii) Growth of different seasonal seeds would be easy

Q No 7:- (a)
Given: One number is divided by B.
Addition of number with so
Sum = 60
Required:
find the number = ?
Calculation:
Let the number is = 2
Divided by 6 2
Added with 50= 2 +50
Divided by $6\frac{2}{100}$ Added with $50=\frac{6}{100}$ $20=\frac{1}{100}$ The air is $60=\frac{6}{100}$
2+50=60
$\frac{2}{6} = 60 - 50$
2 - 10
6
$\chi = 10 \times 6$
[X=60]
the number is 60.
Part (b)
Given:
Sequence 8, 16, 24, 34, 40, 48.
Required:
Odd one in Series.
Calculation ?
In the given Series, the numbers one multiple of 8
except 34, Which is the only odd in the serves.



Q7: Part (d) Given: Tarrif for odd days = Rs. 1000 Per day
Tarrif for even = Rs. 2000 Per day. Por how many days the man stayed =? Calculations First find the average of even and odd days Average Taxif of even fairif of odd 2- 2000 Average 1800 po day - Amount pard in total Average per day tarrit 30000 15000 days the man well stay for 20 days on the amount him by

(a) Given: Total ensollment in Jan 2022-850 pupils Ensollments in Jan 2023 = 1120 pupils Percentage increase in intot empliment =? Calculation: let ensolments of Jan 2022 = x Enedlments of Jan 2023 = 4 Deference blu x and y

y-x= 1120-850 Now Percentage increase from x to y: Percentage X X Difference in envollments). X 100 increase ( 100 Percent increase x 850 = 270 x 100 morease Increase = 0.3176 x 100 increase = 31.76 31.76% increase in ensollments from Jan Jan 2023. 2024,03, Q6: Part (c) Givens Number of heads = 48 Required: No. of Hons=? Calculation: As each head must have a lege so, 48x 2 = 96 These must be of Cows. Also, The two lege age Cassied out with 48 heads. legs of Hens = 140-88 No. of Hens = 59 -: 2 - legs Mo-of Hens- 26 Part (B) Given Let Age of Son = 5.x Poscent of Son's age =? As two years ago, Sum of Tage was 114 2024,03,21 01;23

 $(\chi - 2)^2 + (\psi - 2)^2 = 114$ x2+4-2(2)(x) + y2+(4)-2(2)(y)-114  $x^2+4-4x+y^2+4-4y=114\rightarrow 0$ Put  $x^2+4-4x+(5x)^2+4-4(5x)=114$ x2+8-4x+25x2-20x=114  $26x^2 - 24x + 8 = 114$  $13x^2 - 12x + 4 = 57$ 13x2-12x+4-57=0  $13x^2 - 12x - 53 = 0$ Q- formula: x=-b + 16-4ac  $x = -(-12) + \sqrt{(-12)^2 - 4(13)653}$ x= 12+ \ 2900 X= 12= 1 x= 12 ± 53.85 x = 12+53.85 x = 65.85 X = 2.53 -> Age of son. Now Age of father as per Caladian y = 5(2.53) = Simplified form after
y = 12.65

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