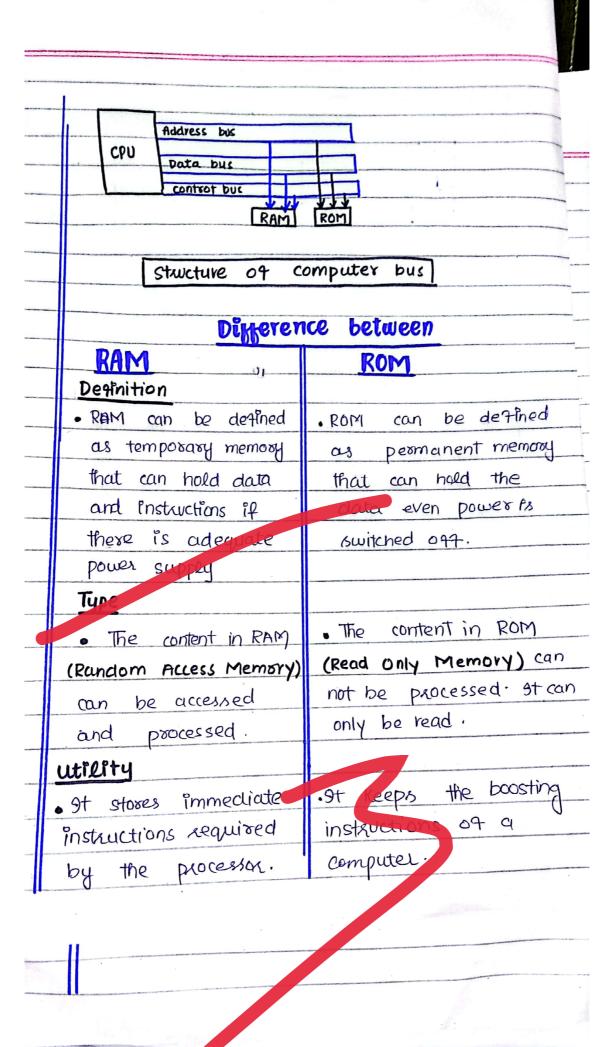
Dos and Don'ts for Generaral Science & Ability **Paper** Hi there. ** "Ye done well. Know that reproductive factoring and reproductive paper according to what's asked har there are a few things I would like to highlight, 5 mSekstpart requires at least 2 and at max sides of a paper. Know that there can be two of the part of a duestion and their marks are choided a ccordin V. So, address all a just manne OM Unitrition in agem ent. You aet 35 minutes to sometione buest conditiones percut maisesparther ¹accordinent 185 ed deginderstand LANGUE MORE rts and diagrams 6. In ability partion, give arralytical ability question in words. You need to ightderstand that a 5 mark part requires all steps written and explained. Good luck for CSS 2025. You're gonna rock in **CS** CamScanner sha Allah.:)

	Causes	of Malnutrition
Direct Co	cwses	Indirect causes
•) 9nadequat intake		•) Povesty •) Food Posecurity
•) Gastro-inte diseases	estinal	•) Conflict and displaced
 Alcholism Mental he Poor diet 		•)Herethouse access
Consequences of malnutrition		
		rition
Physical	Physiol	ogical
•) Weight loss		risk of infection
•) Low energy	Prolonged	I period of recovery
•) Muscle wastin	• Increase	d risk of side effects
) Increased lisk	• Reduced	quality the
of Anactuses		lose
•) Reduced mobile	V	

- (b) -		
Food Contamination Definition	Food adulteration	
	1-The intentional addition of inferior or faceign substances to good to increase its weight appearance or volume while deceiving consumers is termed as good adulteration	
Causes 2- Accidental or unintentional introduction of contaminants Nature of substances		
3- Can include micro- organisms (bacteria, viruses, parasites), chemicals or physical objects	3- often involved the addition of cheaper ingredients or artificial substances	
(glass metal) Health Risks 4- Can lead to 4000 boone filnesses, such as 4000 poisoning, disshea or vomiting	u. May pose health risks of added substances are harmful or if	

	they mask the presence	
Example	of harmful contaminants.	
5- Food contaminated with	=-Addition of water or	
E. coli bacteria on	fillers to make meat	
toxins.	or juke.	
Detection		
6- Can be detected	6. Difficult to delect	
through laboratory	because without	
testing and good	specialized testing of	
safety inspections	knowledge of the	
Prevention	adulterants.	
Ptc		
7- Proper food handeling,	7- Strict regulating	
storage and preparation		
practices can prevent	are necessary to	
good contamination	Prevent adulteration	
- (C)	_	
Compute	1	
These are the el	ectrical wises through	
	nicates with other	
VIIICI		
parts of computer.	single external	
=> Early PCs had	single external	
bus or system bus		
<u>G</u>		



-(d)-

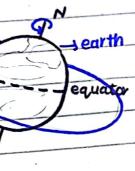
Geo-stationary satellite

geo-stationary satellite is earth an orbiting directly placed satellite and equator. revolves the în 91 the over rotates direction the easth same complete one to hoyrs 24 and takes rotation.

use:

A geo-stationary satellite is used in broadcast TV, communication network direct positioning system global OL

geostationary manufacture



Natural satellite

satellite which revolve naturally The natural satellites. called Moon is a natural satellite are

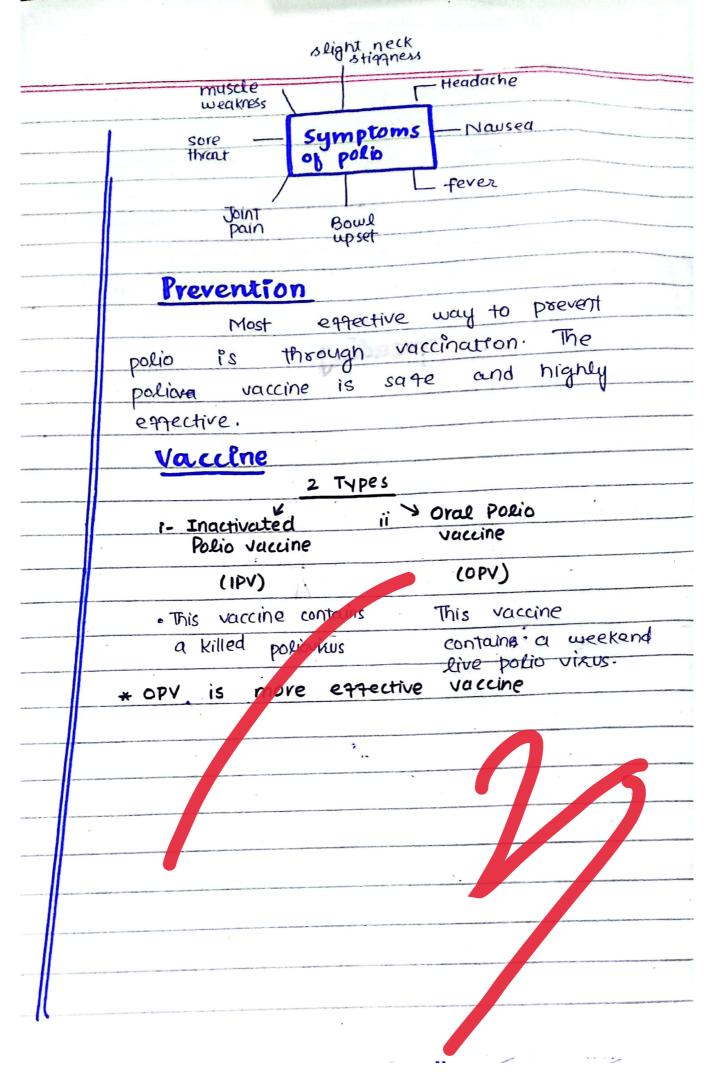
04 earth

- 1	2- Artificial satellite	
	These are	
	revolve around a planet particularly	
	earth.	
	2 Types	
	Greo-stationary Polar cotours	
	*Their motion is	
	synchronized with move	
	the mostion of pole to the	
	eaxth. South pole	
	3- Artificial satelliter of Jupiter	
	ouprice.	
	There are no artificial satellites	
	of Jupiter.	
_		
Ш		
11		
#		
ll		

0#5 (a) Radioactivity Radioactivity is defined as; Radioactivity is the spontaneous emission of energy and subatomic particles from an unstable atomic nucles. Radioactive decay: The process of radioactivity is called radioactive deay. Radiations: The energy emitted and regered to particles collectualy as radioactivety. €.9; a = alpha radiations 8 => gamma rays β ⇒ beta rays Radioactivity Proton

1	e between
Natural	Artificial
Radioactivity	Radioactivity
- Emission of radiations.	1- Emission of radiations
from an unstable	from an unstable
nuclei due to sel4	nuclei through induced
disintegaration of nuclei	process is called
is called natural	artificial radioactivity
radioactivity	
2- This phenomenon is	This phenomenon is
exhibited by elements	exhibited by elements
with atomic number	with atomic number
more than 83.	less than 83.
3-9t cannot be controlled	.gt cân be controlled
once started	
lead chamber	alpha particles
lead chamber	
Ladioactive	Nitrogen 0 0
2017	protons cund ne
	M
	14N + 41 € → 170+ 1

1	(b) Polio	
		Polio) is derived from
		in regers to the
	inglammation of Gre-	
	cord. It is a visal	State of the state
	that sometime cause	place the second of the second
	Injection Cycle	of Polio
0	Entering the body	Polio virus
②	the body through mouth with direct contact. with injected Person or indirectly via contamination Visus first injects and replicates in cells of instestive. From where it can enter main bloodstream	
		re of contamirated



	- (d)-			
-	Population planning			
	Population planning also known as population control or gamily			
emerco)				
	APT OF PAGE			
	and programs designed to regulation.			
-	the growth and size of population.			
-	9t involves serious strategies aimed			
	at influencing fertility races			
	mortality rates and migration patterns.			
1				
11	Benefits population planning			
1	The benefits of population planning			
	Day Office and a second			
	i- Improved health and well-being			
	i- Enhanced education and economic			
	11- opportunities			
	in- Greater choice and autonomy			
	v- Reduced poverty and inequality			
	vi- 9mproved envisonmental sustainability			
	vii- Enhanced socio-economie development			
	viii- Improved good security			

	Section -II		
la y	Q#6		
	(a)		
	Given Envollment in Jan-2022 = 850 pupils		
the second second second second second	Envollment in Jan 2023 = 1120 pupils		
Section of the section of	To find		
	1. age increase in enrollment = 7		
	Solution		
	To find Increase in enrollment		
	Difference in 1120-850		
	= 270		
	rage increase = (increase in value) x10		
	rage increase = <u>(increase in value)</u> x 10		
	$=\frac{270}{850} \times 100$		
	= 31761.		
	Hence, the percentage increase in		
	Olorall		
	ensoliment is 31.76.1.		

Given

suppose current age of boy=x
age of father =5x

To Find

Present age of gather -?

Solution

a years ago Age of father + Age of = 114 son

 $(5n-2)^2 + (n-2)^2 = 114 - 0$ Solve the equation

 $25n^{2} - 20x + 4 + (n^{2} + 4n + 4) = 114$ $25n^{2} - 24n + 4 + n^{2} - 4n + 4 = 114$

 $26n^2 - 26n + 8 = 114$ $26n^2 - 24n = 114 - 8$ $26n^2 - 24n = 106$

 $26n^2 - 24n - 106 = 0$ Divide the equation by 2

 $\frac{1}{2}$ ($26n^2 - 24n - 106$) = 0

 $13\pi^2 - 12\pi - 53 = 0$ (3)

Now, factorize the quadratic equation using quadratic gormula

x=(b ± \ b2 - 4ac) b=-12 9 0=13 9 C=-58 Put values in goimula x = 18 ± \((-18)2 - 4(13) (-53) /2(13) (12+54) 126 x = 12 ± 1144 + 2756 /26 2 = 66/26 x = 3 $x = 12 \pm \sqrt{2900} / 26$ So, the present x= 12 ± 54/26 orge of son ignoze -ve sign because age cannot be negative Given No. 09 heads 07 cows & = 48 hens no. of geet = 140 07 cows & hens To Finds No. 04 Hens = ? Solution cows = C the Let Hens = H C+H = 48 - 0C = 48-H-2

As a cow has 4 feet and has 2 feet so, 4C + 2H = 140 - 3 Put value of "C" from eq 6	hen
4C + 2H = 140 3	And the state of the second of
Put value of "C" grom eg. 6	***************************************
Put value of "C" from eg, 6	
) in
eq. (3)	
11/11/0	4)
4 (48 - H) + 2H = 140	
198 - 4H + 2H = 140	24.
-2H = 40- 192	10)
- 2H = - V8	
2H = 48	-
H = 12 2	
x = 24	
So, the number of Hens ar	-0 911
T (CI)	2 44.
(d)	
Given:	
Speed during first half =	VI = 40Kmh-1
speed during during 2nd ha	19 = V2 = 60Kmh
To find:	
The second secon	
Average speed =?	
Solution:	

$$= \frac{40+60}{2}$$

$$= \frac{100}{2}$$

$$= \frac{50 \text{ kmh}^{-1}}{2}$$

$$\frac{\text{So}_{9}}{\text{so}} \text{ the average speed eq. can is}$$

$$\frac{\text{Q # 7}}{\text{(a)}}$$

$$\frac{\text{Suppose the number} = \pi}{\text{No. divided by } 6 = \frac{\pi}{2}$$

$$\text{then added } 50 = \frac{2}{6} + 50$$

$$\frac{\pi}{60} = 60$$

$$\frac{\pi}{60} = 60$$

$$\frac{\pi}{60} = 60$$

$$\frac{\pi}{60} = 10$$

$$\frac{\pi}{60} = 10 \times 6$$

(C) odd one out? 8, 16, 24, 34, 40, 48 Solution 34 is odd one because all other numbers are multiple 0 8. 8x1 = 8 8×3 = 16 8 x3 = 24 8 x 4 = 36 not 34 8x5 = 40 8x6 = 48 So, the odd one out of above series is 34. (d) Given . height of tower = h=15m base = 20m To bind: aerial distance = ? Solution

aeval distance Using Pythagorean theorem b > height /altitude 20ma=base $a^2 + b^2 = c^2$ $(20m)^2 + (15m)^2 = c^2$ $400 + 225 = c^2$ 625 = c $c^2 = 625$ Taking under both sides 800 T asm S0 9 the aerial distance 400 tower is 25 m

_	_	
	O	1
-		•

Given:

Tania por odd dates = Rs. 1000 Tania por evendates = Rs. 2000

Tarrit pard by man = Rs. 30000

To find:

No of days man

Solution:

suppose man stayed for x

The number of odd days = $\frac{\alpha}{2}$ /2

The number of even days = 3/2

That amount paid = (no. of x tarrif alondays + (no. of alondays) + (alondays) tarrif alondays

 $30000 = (\frac{\chi}{2} \times 1000)^{\frac{1}{2}} (\frac{\chi}{2} \times 2000)$

30000 = 500x + 000x

30000 = 1500x

30000 - ∝ 1500

x = 20 days

So, the man stayed fox 20 days in hoteo.