D	ate: MTWTFC	s) * .
	GENERAL SCIENCE AND ABILITY	
	Follow step k	v sten
	Section-1 method for m	ath solutions
	Draw diagrar	
Q3 a)	Explain and draw competitive	dge
	Write comple	te answer to
Ans:	the question	
	- Done	
	zone.	\$
٩	DIAGRAM -1.	
	The steucture of the sun is	
	divided in 10 2 parts describe	
	below:	
i	PHYSICAL STRUCTURE.	
	The	
	physical part of the sun consist	
	of 3 portions:	
2.	THE CORE:	
	The core is the	
1	middle most part of the sun.	
	This is the place where nuclear	*
	Jusien takes place (The proton	
10 10 B	atoms of hydrogen starts Jusing	
part was	0 1 (1 0 )	

	juine divided into 2 poitions.	
•	INNER CHROMOSPHERE:	
	This	
	is the inner part of the chrom-	
	osphare The temperature here	
	os 4000°C, it is some war.	
	- me photosphere because most	
	1) - me energy is radiated	
	ontwards.	
•	OUTER CHROMOS PHERE:	
	The	
	outer enromosphere is the	
	cast part of the sun's	
	chromosphere. The temperature	
	here is 10000°C.	
•	THE CORONA:	27.0
3.5	The corona	
L.	is we outer most layer	
	n - ne suris studiuc,	17.7
*	y such such such such such such such such	-

$\mathcal{D}$	ate:
	dangerous as way come closeto The cost.
	GENERATION OF TSUNAMI:
	Temamio can
	be generated by any of
	- Le Jollowing reasons.
1.	Under water Faith Quarks.
٤.	Volano ecuption.
3.	Land Miding.
<u>.</u> 4.	Arestecoid collision.
1	UNDER WATER EARTH QUACKS.
	When a Faeth
	quark takes place under vater,
	it creates disturbance under
	from beneath causing ripples
	and nows in the rater,
	There grow loegee as the
	natur gets shation.
2,	VOLLAND ERUPTION:
	Underwater
	volcano ecuption can also

Da	te:	
	course devestating and catastrop-	
	cause devestating and catastrop- hic Tsuramis but ing multions.	
3.	LAND SLIPING:	7/X
	Under Later	
	land daing can also be	
	-ue reason behind the	
	generation of touranis.	
и.	AESTEROID COULSION:	
	Acsteroid	
The sale dealers of the	and the second of the second o	
	collisian. can also be a cason	
	A second	
•	collisian. can also be a cason	
•	collision. can also be a cason and some trupamis have been a result of asteroid colliding	
	collisian. can also be a cason and some tsupamis have been	
	collision. can also be a cason and some trupamis have been a result of asteroid colliding	
	collision. can also be a cason and some trupamis have been a result of asteroid colliding with the ocean.	
	collision. can also be a cason and some trupamis have been a result of asteroid colliding in the ocean.  A trunami generated	
	collision. can also be a season and some tsupamis have been a result of asteroid colliding with the ocean.  A tsunami generated by any one of these reasons  can cause damages. The	
	collision. can also be a cason and some trupamis have been a result of asteroid colliding with the ocean.  A trunami generated by anyone of these reasons	

$\mathcal{D}$	ate:	D
	EXAMPLES:	
, 1.	A ts unoumi in Japan, caused	
	by 9.1-9.3 magnitude	
	Earth quack cousing The death	
	of over 150,000 rumans along	\
	with assuppearences and	
	temporary movements of people.	
2.	A tsurami in Indonesia, teiggered	
	by a 7.0 magnitude faithquas	
	resulting in the death of more	
	man 15000 people.	
1		
c.	Discuss environmental · · ·	
	· · embit.	
Ans:	ENVIROMENTAL POLLUTION:	
	Environmental	
	pollution con be any type	
	of pollution that baems,	
	deteriorate or destroys the	
	environment in any kind of	X 10

may. This pollution can disturb	
the peace of the environment	
g or orange its cycles.	-
This can cause serious harm	4
to plant life, animal life and	4
human life as well Climate	4
· ange, 6 lobal warning,	4
Volcanic ecuption, dioughts,	i -
heavy cainfull, change in	-
the timing in winter and	1
summers and floods can	
be a result of environmental	1
pollution.	1
	1
HARMFUL EFFECTS OF	
ENVIRONMENTAL PORTION	_
Air potentian, water	_
pouvion, Noisé pollution are le	_
major types of environmental	_
poliura - most can result.	-
in very haemful ways for	_
au uje uje forms	
	_

$\mathcal{I}_{===\pi}$	Date:
2.	Air poll win is a result of
	The harmful gazes that are
	released by cons, factories
	and in distries. Misso House
	Coresons au the major
	culprate of causing air.
	polition damaging the
	ozone layer. Smog is
	- Le example of the harmful
	effects of air pollution - that
	recently caused a wacdown
	in Labore, where The
	AQI (Air quality index) -ent
	near 2000, 70% more Van
	- Le World health organization
	standards. Ties caused scrias
	Lealth issues for people
	living in Labore and
	pelpi.
19	
2.	Water pollution is the easet
	of garbage and we

	norm jul chemical substances.	
	disposed of into the sea, vivees,	
	lakes and oceans. This can	
	cause sceious health issue	
	for humans out well as	
	the marine life.	
3.	Noise pollution is the result	
	Top any type of noise that	
	aistubs the peace of the	_
	enjanment.	
		1
	MEASURES TO CURB ENVIR	1
	ENMENTEL POLLUTION:	
	Several	_
	There is a second of the secon	_
	measures c'an be taken to	
	solve The problem of invion-	~
	mental pollution given below.	-
1.	Recyding.	
2.	Proper disposal of garbage.	
3.	Setting a standard on	10
	relides (Vehicles emilling gass)	

Date:		,
3.	Satelite communication.	
и.	Radio Sighals.	
· 5.	Millitary equipments.	
	WORKING OF A SATELITE:	
	There die 2	
	in pes of satelites.	
2.	Natural satelites.	
2.	ser picial satures.	
1.	NATURAL SATELITES.	
	Natinal	100
	satelites as the name	
	indicates are naturally family.	
	Natural satelites are The	
	moons that revolve around	
	the planet. In one solar system	
	different planets have different	
The same of the sa	nutre of satelites:	
1.	Meiney -> None.	
2.	Venus -> None	
25.	Earn> 1 (Moon).	Carrier (
4.	Maes > (2)	

Da	ate:	)
	ENGVISH PRECIS AND COMPO	
	sitiost.	
	PART II.	
	Paristanis and	
5.	Jupitar -> 72 moons.	
. 0.	Saturn -> 68 mons Titan).	
٦.	Uranus>	
3	Nephre.	¥
2.	ARTIFICIAL SATELITES:	v .
	Actificial	
	satelites are human made	
	satelites. They grevolve agoing	
	The Earth and other planets	
	in an orbit.	
	A specific speed is needed	
	for them to reach the point	
	here the centrifugal price	
	g-le planet mates-lem	
	revolve around apparet. Different	1
	speed is needed for different	

	satelites or biting different planets.		
	Escape velocity is the relocity		
	Escape velocity is the relocity reeded for the satelite to		
	escape the gravitation of 1914		
	A Faeth . A las a silver	9	
	through simily of the order without		
	DIFFERENT TYPES ACCORDING TO		
	THEIR FUNCTION.	-	
	also in order	-	
1-	Acro centric. Orbits around Therplands		
2.	Geo centric (or bits around Earth)	·d	
3.	He lio centric ( dibits around sur)!		
	Committee and the second secon	-	
	The international	-	
	space station' is the bagget	181A	
	satelia will date to orbit		
	Faeth orders what of sar sour all	-	
	Sputnik 1 and 2 race		
3 ,	the 1st and 2rd satelite courched	-	
	by the Russians in space.		
-	The street of the street and with		
	edual bors product units and daile		
15.	D'yferestiate b/- all.	_	
	correctly shape the system	-	
<b>5</b> :	Following are the diff chences between		
	a probablyotic and Entrapyotic all.	_	
	PROKARYOTIC: EUKA RYOTIC		
	Commence of the commence of th		
2.	celled organism. and multi celled organism		
2			
3.	No membrane bounded Has a membrane or gan ele. membrane		
		4	

Locks mitocopolicia Has mitochondia.  4. Comadler ober of Bigofee Lagar note of mitosomes (700) of mitosomes (200)  5. Hos no nucleas Nucleas is present.  6. Cell division is Cell division is through kiney the och mitosis.  1) issis  2. Present in bactern. Present in plant and animals.  10. What is appload warming?  What is Kypto profit od?  Ans. Global Warming:  15 The rise of temperation of the result of octors layer defeating because of air pollution. The model is an object of the model of the mitosoment and double that in the north century and double warming dispupts the system of environment and can have deventuring and catastic play affects on our world. The direct of the mitosoment and can have read and impacts on Earth.  Global warming is not a term institution of all and mitosoment and come thouse read and come thouse warming add mito chimate change.  This is barrally the to human			
Has no huceas Muchas is present.  6. Cell division is Cell division is through timey theorem in plant and animals.  1. Present in bootent. Present in plant and animals.  1. What is exploted weeming?  What is knot protocol?  Ans. Global WARMING:  Global weeming?  What is knot protocol?  Ans. Global warming?  What is the result of Earth. This is the result of Earth. This is the result of example and animal is an ine asks of 2.6°C rise in temperature this century and double that in the next century. Global warming disrupts the mystem of environment and can have devastating and catastophing and catastophing and catastophing and catastophing and impads in Earth.  Global warming is not a term including add with almost change.			
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5. Has no nucleas  6. Cell divis in is  6. Cell divis is  7. Present in plant  8. Present in bacteria.  8. Present in bacteria.  8. Present in plant  8. Ans. Global waeming?  8. What is applosed waeming and carbon to plant  8. What is applosed waeming and carbon to plant  8. What is applosed warming and carbon to plant  8. What is applosed warming is not a term  8. Interthangaldy with climate change.		Lacks mitocordia	
6. Cell division is Cell division is through timey theorem mitoris.  1. Present in bacteria. Present in plant and animal.  1. Present in bacteria. Present in plant and animal.  1. What is applead wheming?  What is kyoto protocod?  Ans. Global Warming:  Global warming:  Global warming is the result of pair pollution. The world is on the acts of 2.6°C rise in temperature this century and double that in the north century. Global warming dispupts the system of environment and can have devastating and catas to plant appears on our world. The direct uniques to make your bad impacts in Earth.  Global warming is not a term interthangaldy with chimate change.	ч.	Smaller of the	Bigger Lagre nobe
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Ans. GLOBAL WARMING:  GLOBAL WARMING:  Global waeming  Global waeming is not a term  interhangaldo min climate change		to acoust object planet	sho contra ast
Ans. GLOBAL WARMING:  Global warming is not a term  interhanged on the result.  Global warming is not a term  interhanged on the ward ward.	ю.	The state of the s	AND THE PROPERTY OF THE PROPER
Ans. GLOBAL WARMING:  Global waeming  is the rise of temperature of  Earth. This is the result of  ozone layer depeading because of air pollution. The world is  on the oaks of 2.6°C rise in  temperature this century and double  that in the next century. Global  warming discupts the system of environment and can have  devortating and carastophic  affects on one world. The direct  UN rays from the sur can have  ray bad impacts in Earth.  Global warming is not a term  interhangalod nith chimate change.		What is Kyoto	protocol ?
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of air pollution. The world is  on the goese of 2.6°C rise in  temperature this century and double  that in the next century. Global  warming discupts the system  of environment and can have  devostating and catastophy  offects on one world. The direct  UV varys from the sur can have  remy bad impacts in Earth.  Global warming is not a term  interchangaldo nith climate change.	71 1 1		
un The acts of 2.6°C risc in  Temperature This century and double  That in the next century. Global  warning dispupts the system  of environment and can have  devastating and catastrophy  offects on one world. The direct  UV rays from the sur can have  very bad impacts on Facth.  Global warning is not a term  interchangaldo nith climate change.			
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devastating and car have devastating and catastrophy offects on one world. The direct us ray bad impacts on Earth.  Global warming is not a term interchangaldo min climate change.		wat in the no	xt century. Global
devastating and cars toplar  offects on one world. The direct  UV rays from the sur can have  ray bad impacts on Earth.  Global warming is not a term  interchangaldo nith climate change.		warning disqu	pto the system
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Global warning is not a term interchangaldo nitr climate change,	1	UV rays tran -	Le sur can house
interchangaldo nitr climate change,		very bad in so	acts in Earth
interchangalde with climate change,		Global warmin	S is mut a Terr
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	activities primary forsil free being	
	which increases heat trapping and	
	green horse gas leads in	
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	a present there it is him as the	and the state of t
	KYOTO PROTOCOLIBERTO MIL	
	Kyoto protocol	
	was an international treaty out	.0
	was signed by different comties	
	in Koyotor Japan on 1149 of 030	: ZITA
	December, 1997 and was intered	
	in to proces on 16 February of	
	geographic injurialism sychol	
	The Kyoto, protocal applied to	
	we seven green house gases, some	
	of these 136 H. Gondet 21-1500	
1.	CO21 (Caebany dioxida)	
2.	N2012 (Nitrous oxide).	
3.	CHypitatelland Don's and wo	
4.	HFCs (HydronFlo and coepes). etc.	
	gulero in The puepose of the	
	treaty was to teep The level of	
	aceses gared below the levels in	
	selferme system wat organisoppe	
	Title 11st phase of the kyoto	
Call.	protocol was from 2008 - 2012 in	
	authorph it triced to rep ch its	
	objective because countries likes	
	China and India the largest	-
	GHG emitters) were considered in	
	Market Control of Cont	

	developing overlier and not	1
	dueloped This was a big disadvantage to countries like	
	disadvantage to countries like	
TANKS OF THE SECOND SEC	SAJUK and Russia. But he	
	Kyoto protocol set the pro	
	straight that global raining is	_
	a present threat to humanity	_
	which should be dealt water	-
-	laustord dory	
<b>c</b> .	Write sour is a BISS on as you	
	contract forming bed proble for	
Ans:		
	Perember 1017: (SIE) marreys	
	10 provided al GISM stands spen	
Arres.	geographic infamation sydom,	
	similar is local competer system	
	Factions displays data about the	-
	show multiple types of date	-
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	beat a this consts of the	
	integrated "computer hard vace and	
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	stokes , among ses , and then	
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	sional) pictules below to some	
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	Church and India We legat	
	BHG emitters) were considered in	
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		1
	Briefly antioxidants.	
.F (A)	ANTI OXIDANTS:	+
	Anti oxidants are	1
, , , , , , , , , , , , , , , , , , ,	free radicals compounds that prevent	1
	oxidation. A chemical region that	
. 4	can weath free tadicals free tradicals!	
	can damage cell and can lead	
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	Pifferent foods are	
15	eich in antioxidants. Such as	
1100	Vegetables. Doma and	2.
	d Nulsy, of the cal (05+4) 138	2.
No. of Concession, Name of	Seeds. 82 Des-Vol 3 d 115- 324	3.
	Heybs, exc. 10 101 . otano	5.
-	Anti osidants are also	
	used in industries to incease	
	- we shelf life D products like	
Britania de la compania de la compa		
	Duet, inbricants and polymeis.	

	SECTION	Brief K Hit	
	/	FRIT OSIDANIQ	_
<u>Q3.</u>	0		-
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So, 0 - 1 1 1 1 1	138
- We age of Aman will be	
- Le age of Aman will be	
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= - +	-
120 1.20 1.20 1.01	
so the the regured to mon	
1 Lan 1'2 52	
3 - 5 13/120 2 85 210 210	
= 120	
5 (2) 18 3339	
11 =1 24 minintes.	
It will take 24 minutes	
to mor a can together.	A.
12° 24° 116° 616° 112° 12° 12° 12° 12° 12° 12° 12° 12° 1	1/43

<b>M</b> .	16 su n-ba?	
Q6.	16 m n - ba!	
Sol:	a+6+2 = 15> 0	-
	0 b+c=12 0 0	
	b-c -b= 2 50 b= c+2.70	+
	put a ey D.	4
	(c+2) + c = 12	-
	2/c = 165 ( = 3).	4
	No- put 7 c 2/2 eg 3.	
-	b= 5+200 = (7).	
	put all - he values - egg (1).	-
	a+ 7+5=15 00101	-
	$a = 15 - 12^{12} = (3)$	-
	a=3, b=+, C=5. and	
	so, la 3 digit aba is	
	375. July yabbre	
	- 1 + 1	
C.	Diamelu airde.	1
Sel:	Cirampiena = # x diamate	
	Accor = $\sqrt{1}$	
	Dianeter = 6 a. OSI	$\bot\!\!\!\!\!\bot$
	so, Ciraberence = JTX6 = 6TT or	<del>-</del>
- 12	= 6 × 3.14	4
	)= 118-8uc-	-
		11
	Acea = $\overline{\Lambda}\gamma^2$ .	-
	Diameter = 20 so for piding 8 = 6.	
	Dianeter = 20 so for fiding 8 = 6.	
	Diameter = 28 so for finding 8 = 6.  * radius = 3 m 2  **Mea = T(x)2.	
	Diameter = 28 so for finding 8 = 6.  * radius = 3 m 2  **Trea = T(x/3)2.  = 19 T 01 2 9 x 3.14	
	Diameter = 28 so for finding 8 = 6.  8 adive = 3 m 2  Mea = TX(3) <sup>2</sup> .  = 19 TT 01 : 9 x 3.14  solution 11 S = 10 28 11 26 cm <sup>2</sup> .	
<b>a</b> .	Diameter = 28 so for finding 8 = 6.  Yadine = 3 m 2  Prica = T(x/3) <sup>2</sup> = 19 T 01 2 9 x 3.14  2 2 8 1 2 6 cm <sup>2</sup> .  I de tip your 9 x 3.14	
a. Sol:	Diameter = 28 so for finding 8 = 6.  Yadin = 3 m 2  Prica = TX(3) <sup>2</sup> = 19 T 01 9 43.14  13, 24, 46, 96, 178, 354.	
	Diameter = 28 so for finding 8 = 6.  Yadine = 3 m 2  Prica = T(x/3) <sup>2</sup> = 19 T 01 2 9 x 3.14  2 2 8 1 2 6 cm <sup>2</sup> .  I de tip your 9 x 3.14	