Dos and Don'ts for Generaral Science & Ability Paper	
Science & Ability Paper 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.	
another. There are a rew timinger	
would like to highlight. 1. A 5 marks part requires 2	1.2
sides(not more than that) of a paper. Know that there can be	
two or three parts of a question	
and their marks are divided accordingly/So, address all of	1-5%
accordingly So, address all of Energy them in a just manner.	
2. Focus on time management. You get 35 minutes to solve one	
question and about 8 minutes per	
Solar according Caeo Herman Waves	C
3. You need to understand that your paper is supposed to look	
more scientific than theoretical	
So, add flowcharts and diagrams where required.	
where required. Hydrogen Broene gy 4. Your handwriting and neath as	-
can be really impactful. Avoid cutting and overwriting.	
5.Focus on your spellings and	
Uhlis in special cition in marks byt	
your expression will definitely	
Pakish ability portion, give a such that de	
explanation for analytical ability about Squestion in words. You need to full sun	
understand that a 5 mark part	
requires all steps written and he year.	6
Good luck for CSS 2025. You're	L
The policies encourage solar are	
To be and carboiding //	
1. Tax breaks and subsidies for	
firms filling to sell solar power	
	- 1
technology to consumer as well	
그렇게 하는 사람들이 되었다. 그는 이번에 가장 하는 것은 사람들이 가는 사람들이 되었다. 그런 그렇게 되었다면 그렇게 되었다면 살아보고 있다.	
as firms utilising solar itself	
2. Zero tariffs on importation of	
affordable solar tech from China	
appointed and teen from Ound	-
3. Demorcotion of certain "solar zone	2 4
	1322
in Provinces to be used as solar	

_		Committee or particular law or
	Utilising Wind	
	1. Using the high wind areas	
	of Smidh and the coastline to	
	build turbines	7
(wa	2. Financial incentions	
	Utiksing Hydro	
_	1. Preference for smaller dams to	
	reduce population displacement	_0
	and resistance in . KP.	
	2 Smaller dams to maker	
	maintenance and desilting easier.	1200
	Utilising Bioenergy	
	1. Creating a government-leal	
	channel of acquiring bio fuet.	O
	from formers at foir roles.	- 1
	2. Educating farmers on biofuel	
1	use and new techniques, to	
1	promote adaption and self-	
-	sufficiency	135
	A chaeth single of the same of	

(b) Structure of Sun The Sun is a star of the centre of our solar system. -> Upper Monte Crust F . Lower Montle The Core The core is the innermost layer of the Sin. It is very high in temperature and consists of molten metal such as Iron. The Lower Mante The lower mante is a thick layer VISCOUS denser than is burning

Upper monte which rises above it The Upper Mante The upper mantle is also thick viscous magna. It is the source of convectional currents which causes plates to move. The Crust The layer of Earth on which life is found. It floats an the mantle. It consists of both ocean crust and land crust.

(c) Ceramics

Composition

ceramics are made of metallic

Charatteristics

- 1. Ceramics are easily breakable.
- 2. Ceramics are good at retaining heat and maintaining temperature

Possibility of Recycling Ceramics

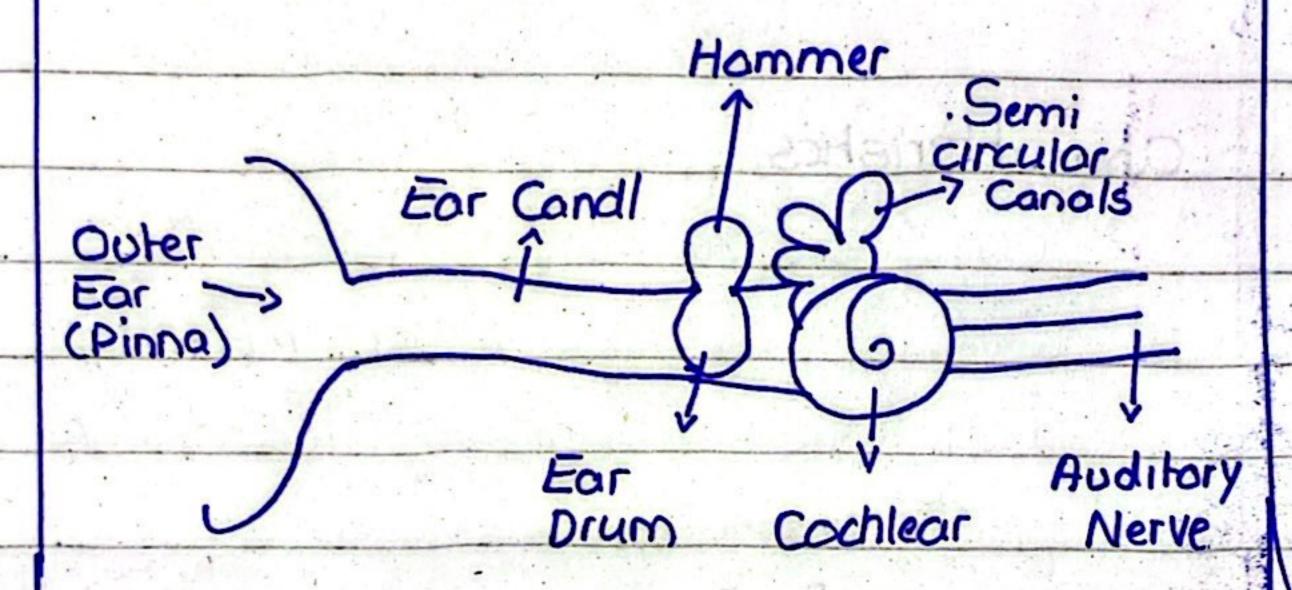
Cercinics can be recycleal.

They are aushed into a fine powder and then reformed or

used in other material manufacturing

(d) Structure of Ear

The human ear is used for hearing and is composed of six bones.



Pinna

The visible outer ear it consists of a senes of grooves and fine hair to improve the circulation of sound.

It is made of contrage.

Ear Canal

The pathway through which sound havels into the ear. It is coated in wax to protect from injection and impurities.

Ear Drum

A thin curtain which protects the Inner ear from loud poises.

Semi circular Canals

small canals that improve the identification of sound.

Cochlear

The main sound-recognising part of the ear. It turns the vibrations into sound and sends it to the outlitory nerve

Auditory Nerve

The nerve that carries auditory: Information from the Cachlear to the brain, where it is decaded as music, voices, or sound.

Q5

(a) Artificial Intelligence

Artificial intelligence refers to the intelligence of a GPU which can perform tasks using lagic.

In recent times, consumer level artificial intelligence has seen a boom with Open Al's Chat GAP. Google's Geminiand others

Types of Artificial Intelligence

Dienerative Artificial Intelligence

Generative Al can think on its

own and understand complex prompts.

It is usually used in tasks with

greater complexity and informational

valume. It is more expensive than

others

11) Lorge Language Models (UM)

do not "think" but rather use training input claim to recognise the language used in prompts and predict the next word. They handle tasks from low-medium complexity and lower informational column Most consumer Al products are MMs.

Capability to Outsmark Humans

While debateable, current consensus

on the rapic says Al is not there

yet. Al may be able to handle

greater data than the human brain but

they can also be confused. The

Al hallucinations phenomena, in which

Al begins to present fabricateal information

as true is common with Al products.

Moreover, Al's are trained on

human collected data which means

that human bicses carry over to

Al. Proper explanation is

required

	(b) Rocks
	The state of the s
	Rock Formation
	Rock formation refers to geological
	formations created out of rocks.
	Examples: Ravines, conyons, cliffs etc.
6_	Rock Cycle
	The rock cycle is the cycle of
	the formation of rocks and their types
	Sedimentary . Earth's surface
	1 Crust
	Metamorphic (Land + Ocean)
*	
	Igneous Maging
	Igneous Magma (mante
1	
	In case of volanic eruptions or.
	strong earthquakes that expose the
	magna on the ocean floor, igneous rocks are formed. The cooling of
	magna forme igneous rocks.

When the rocks rise through the Earth's crust, they become stuck. The heat and pressure cause the formation of metamorphic rocks! As the layers of tock on the Earth's surface and water erade, Sedimentary rocks are formed. Sediments comied by erosion eventually collect and form racks Properly define and explain all types Metamorphic Sedimentary Igneous formed by formed by formed by cooling of heat and pressure *grosion* Hordest Least hard Relativety less hord

	(c) Corbohydrotes
	Structure and Composition
	They are formed of long chains
	of Carbon, Hydrogen and Oxygen
	Types of Carbohydrates
	Simple Complex
	Monosaccoride Disaccaride Polysaccaride
	Coluciose Sucrose Starch
	Stictose Maitose Glycogen
C	Galactose Lactose
	Simple Complex more than Simple chains with abuble
	Simple chains Chains with double Singular bonds triple bonds and double
	Easier to digest Horder to
	Monosaccaride
	They have chains of consisting

	Disacconde	
		1
	They have chains consisting of single and double bonds both.	
,		
	Poly saccaride	
	They have chains of single, double	
	and triple bonds all.	-
		4
	n de la servicia del servicia de la servicia del servicia de la servicia del servicia	
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		7
		1
		- 685

(d) Bolanced Diet

Meaning

A boliched diet is a diet which

provides cortohydrates, proteins, fots,

minerals, vitamins, and water in

the recommended amount.

Give proper explanation

Benefits of A Balanced Diet

- 1. It reduces deficiences, which in turn prevents and cures several ailments
- 2. It provides the proper amount of energy for day-12-day life.
- 3. It improves the appearance of hair, skin, and nails, thereby improving confidence.
- 4. It provides the necessory energy and numerits to fight off illness by strengthening the immune system.

	C.			T
 	Y	ect	IOI	щ
 *				

P6.

Dota Given

Initial population = 18,000

Future population = 22,500

Time period = 10 years

Percentage rise ?

Solution

Percentage change = future x 100

initical

= 22,500 x 5,600

9.181000

= $\frac{25}{225} \times 5$

9

125:1.

Answer 1251/ percentage rise.

	(b)	
	Data Given	
	600 units in 9 days with 20 machines	
	? units in 12 days with 18 machines	
		-
	Solution	
ч	Units: Days: Machines	
	600: 97: 20	
5	2: 12 1: 18	
	$600 = 12/4 \times 26''$	
	2 9 18/63	
	600 - 124	
	2 9630	
	z = 30	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	600 4	
	2 = 30 x 600 250	
	4	
	$z = 7.5\infty$	
		,
		7

		1
	(c)	
	Data Given	1
	Distance covered by car = 450 m/ min	1
	Distance covered by train = 69 km /45 min	1
	Solution	T.
2	Converting km to m	
V.	$69 \times 1000 = 69,000 \text{ m}$	
		· ji
	Cer: Train	-
The state of the s	Train's elistance in 1 min	
	69,000 45 min	
	?	9.5
	$\frac{13,800}{69,060} = 1533$	
· ·	, 88 45 min	5
	Car : Train	
	450: 1533	100 m
	15 : 511	
	Answer 15:511 for car: Train	
		1
		1

(d)

Data Given

Length of side = 15 cm

Number of sicles = 5

Solution

Perimeter = sum of

all sicles

15cm

Perimeter = 15 + 15 + 15 + 15

75 m

Answer 75 cm

(a)

Definition of 10

10, meaning intelligence quotient, is a general measure that aims to quantify logical, mathamatical and take reasoning intelligence.

Factors Affecting 10

- 1. Genetics and Epigenetics
- 2. Health and diet
- 3. Use of abilities

-	

Data Given

Rachos = 4cm

Solution

Circumference of circle = 2/1 r

= 2 x 3.14 x 4

= 25. 12 cm

Answer 25. 12 cm.

(c)

Data Given

20, 22, 21, 21, 23

Mode: most repeated value = 21

Median 'middle value 21

20, 21, (21) 22, 23

Mean: average

= 20 + 21 + 11 22 + 23

5

= 107 = 21.4

5

Bringe 25 - 20 = 3

(d)

Data Given

Tahir Usman Umar 45,000 15,000 30,000

84 month 5 month

Profit = 406,000 Total invest = 90,000

Solution

Tahir = 12 months

12 - 5 = 7 month Umar

Usman 12 - 8 = 4 month

Tahir's share = \$15,000 x 406,000

63090,000

 $= 1 \times 406,000 = 67,000$

Umars share = 30,000 = 135,000

Usman's share = \$45,000 x 406,000 = 203,000

Answer

= 67,000 Tahir's share

135,000 Umar's share

203,000 Isman's Share