

	Morking of Optical fibers:	
	Optical	
,	fibers work via phenomena	
•	fibers work via phenomena of total internal refaction the	
-,	electromagnetic radiations are internally retracting and bouncing	
	internally retracting and bouncing	
-	back with in optical fiber.	
	It consists of two loyers. The	
	Outermost part is calle of	
	cladder while inner part is	
	called core. Cladder do not	100
	let electromagnetic vadiations	
	out from optical fibers.	
#		
4		
	Cladda ()	
#	Flactons	
	Elechomagnetic Yadiation	
	iqorajon .	
#	Different Methods of Solid Wase	
	Management?	
#		-
	Bolid Waste Management:	A
11	Solid	

	is the process of alumping	
	off waste from industries, Houses,	
	hospitals and nuclear power plants.	
	to reduce other deleamental	
	effects.	
	Solid waste managements includes	
	different methods:	
(a)	Landfills	
(6)	Pyrolysis	
(c)	Inches ation	470.04
(d)	Composting	
You to the said		
0_	Landfilla	W 1
	The land-lifts method	
	to dispose off solid newse	
	management is mostly used	
	method. In this method, a	
	large and on hole or made	
	to J. dump all be solid in	
Ave.	wriste into it. In most cases	4 + 4 3
	the langfills are open the britise	
₩	Reduction of solid waste so	
	on five inside the dump	
	Pyrolysis:	
	III TO DE SET EN LO BEST A LO BEST EN LE CONTROL DE LO CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE L	
	of solid wastes at high	
	temporature without the oxygen.	
	The solid wastes dumped	
	THE BOTTON PACESTON CONTINUES	* **

Da	ıte:	
	into pyrosytic chamber The chamber sets at high temperature of agound 1500°C. In a pyrosphic method, every type of solicity waste	
	sets at high temperature of	
	maked essy true of pyrolytic	
	can be reduced.	
	Incineration:	
	Incheration method	
	involves reduction of solid.	
	waste into different chambers	
	with different temperatures	
		*
	F F	
	B	
(0)	Chamber A	
	It has temperature renge	
	of 750°c to 950°c. The	
	solid waste buint here.	
(p)	Chamber B	
	The gas remaining of	
	Chamber expelled from Pipe	
	β.	
<u>(e)</u>	Chamber C	
	The temperature in	
	Chamber C 13. 9500 10	hene
	1100°C. The organic worste reduced	neve.
روال	Chamber D	
	The "remains of Chamber	and the second
		A Same

	Date:	
The second secon		
	c movee via pipe D and	
	especied out from pipe	
<u>_(e)</u> _	Chamber E	
	In chamber E.	
	temperature is above 1100°C. The remains of all chamber	
	are burnt here except paper,	
	pulp and plastic.	
	peop, and prosine.	
	Composting:	
	Campo sting involves	
	dumping off solid wastes	e e
	into Ilandfill with cores	
	pit bottom and auter cover.	
	In composting wastes are	*
	compressed in layer to Reduce its size. After layering, dump into landfill.	
	geduce its gize. After	
	layering, dump into landfill.	
	Cover 4	
	top	
	Layering 4	
	of solid	
	Wask Cover	
	Sottom	
		-

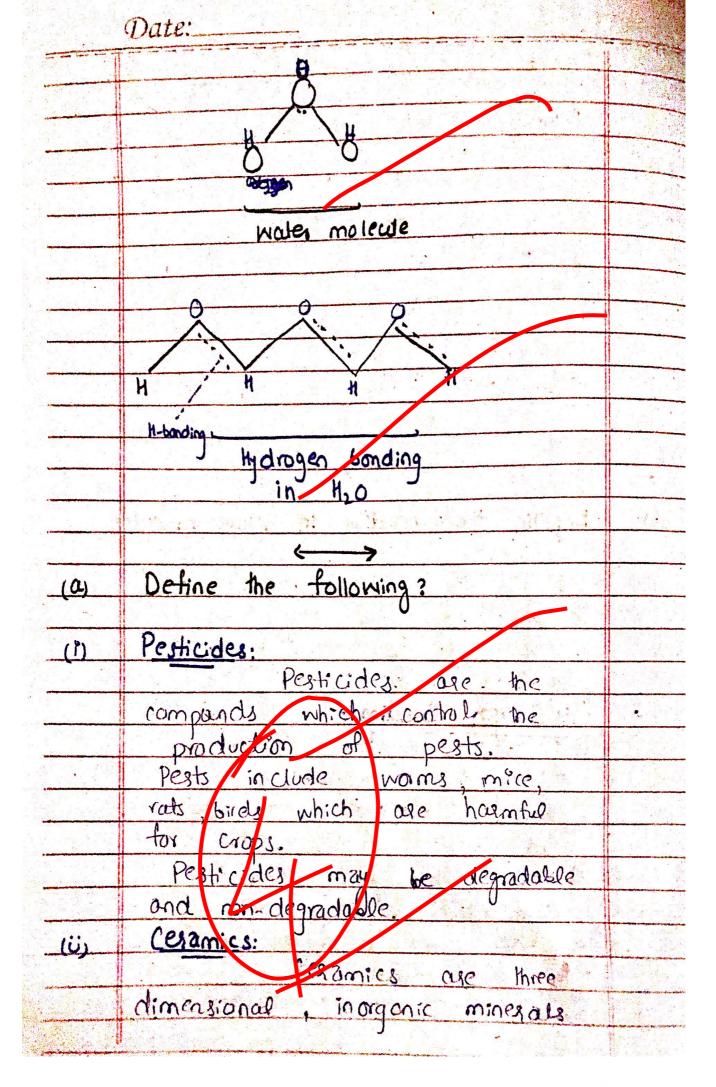
Da	ne.	
(d)	Distinguish Gips and Gis.	
7	<u>GPS</u> :	
	Cops stands for global	and the second control of the second control
	positioning system.	
	positioning system. The grobal positioning system is launching of satelliles into	
	is launching of satelates into	
	the space from each. The	
	contributal force is maintaing	
	some the to some	
	When graitational pull of earth	
	and entripeta force balance	
	each other, the gatelite moves	
	in the oxist with the	
	east GPS moves from west	
	to east in southern pole	
	and east to west in northern	
	pole:	
	Cops finds its: applications in;	
	Communication	
	Military surveillence	
*	Weather forecasts	
	GIS:	
7	GIS is use to	
	find out distances of objects	
	and environmental essues.	

Q.4,	Advantages and disadventages	
	d) Advantages and disadventages of AI.	
- >	Artificial Intelligence:	
	Artificial intelligence	
	can be defined as the simulation	
	of human intelligence by	
	computers. It is brain child	4:
	of humans.	
	Adventages of AI:	•
	Following	1
	age the advantages of artifical	
	intelligence.	
(i)	Advertages in Agricultural Sector:	
	Artificial	
	intelligence finds its application	<u>.</u>
	in agricultural sector. The	
	monitoring of belds, estimation	
	of clops, selection of seeds	
	and driveress tractors to plough	
	and driveress tractors to plough the fields. Also, fertilizers	3

	CONTRACTOR CONTRACTOR
suitable for selective land is	
application of agricul agrificial	
And the state of t	
	
teachers in academic learning.	
Miso, The leaening is easy now	
· · · · · · · · · · · · · · · · · · ·	
	2.2
sector by early alagnosis of	
patients. In this way medital	
sector has taking Truits of	
를 받는 사람들이 있는 것이 되었다. 그런 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	
	al
intelligence is now congresing the	
space lechnology too. Most of	
the developed I countries age	
considering sending robots into	
	lm)
The state of the s	application of agreet detificial intelligence has number of applications in education sector. The introduction of Chat Capt help students and teachess in academic learning. Atiso, the learning 9s easy now as student can consult AI to learn customize skills. Advantages in Medical Sector: Anticial intelligence boosts the medical sector by early diagnosis of life threatening diseases, by prescribing medicines to patients and by palients. In this way medical sector has taking fruits of expanding in Space Technology: Artificial Intelligence, Advantages in Space Technology: Artificial Intelligence, Advantages in Space Technology:

	Date:	
(V)	Advantages in Crime Control:	
	Artifical	
	intelligence helps in detection of	
	criminals. The forensic and	
	matching of lingerprints are	
	aiding J in Gime control.	
⇒	Disadventages of AI:	· · · · · · · · · · · · · · · · · · ·
	Following	
	age the disadventages of AP.	-
<u> </u>	Automation of Wespons:-	
	intelligence increases the risk of	
2	automation of wapons.	
<u>(Ü)</u>	Replacement of Human Jobs:	
	With the	
	adout of artificial intelligence,	
	humans pobs are replacing with machines.	
رننن	Privacy Invasion:	
1	The upber bullying	
	and deep take videos pose	
	threat to humans. The privacy	
	invasion and threatening of	
	breeching privacy has raised	
	the concerns	
(M)	Ethical concerns	
(21		
	emotionless. It does not	
		or and a second

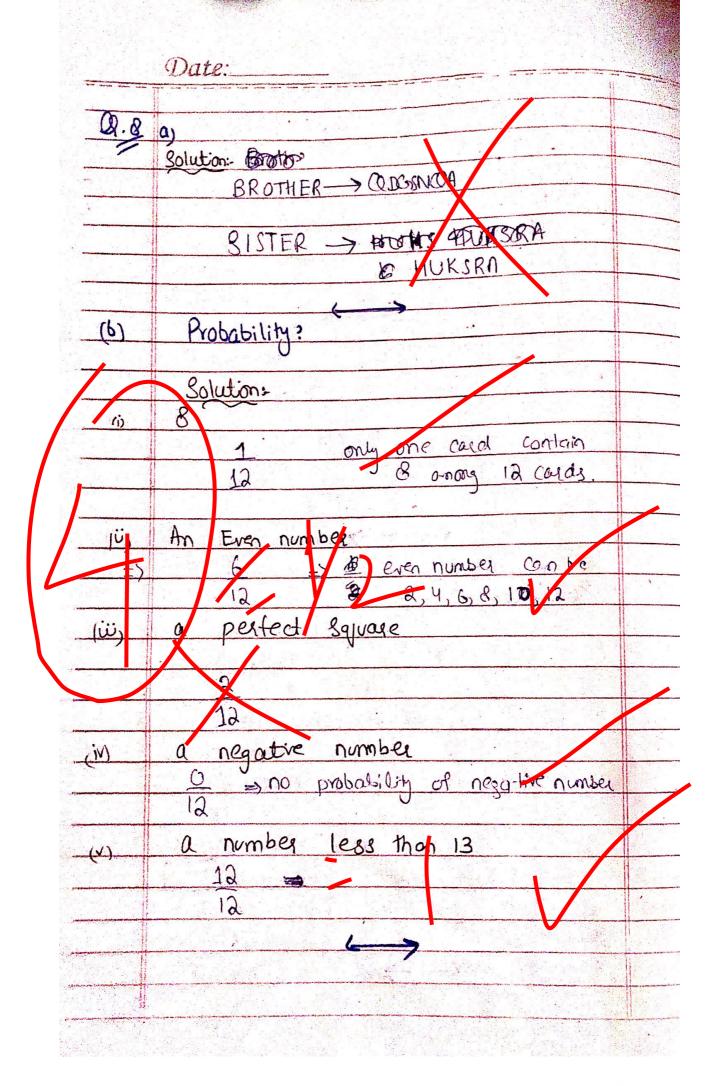
	ate:	
	case about emotions of humans.	
and the special section is the second section of	h oll	(00) (10)
(v)_	Plagiasism and dava merri-	
	provide access to students	
	academia writings without thinking of their ownselves.	
	0 1 0	
	0. 1. 0 M	
	consent U of authors.	
		
	Explain the bonding in Water molecule	,
(b)_	Explain the bonding in Water molecule	1
	l J	
	.0	
	Water malecule consists of one	
	Water materiale consists of one	
	Water materiale consists of one Hydrogen and two arguen atoms. They are bonded through	
	Water malecule consists of one Hydrogen and two arggen atoms. They are bonded through Hydrogen banding.	
	Water malecule consists of one Hydrogen and two arggen atoms. They are bonded through Hydrogen banding. Hydrogen banding:	
	Water materiale consists of one Hydrogen and two aggen atoms. They are bonded through Hydrogen banding: The force	
	Water materiale consists of one Hydrogen and two aggen atoms. They are bonded through Hydrogen banding: The force of attraction present between	
	Water materiale consists of one Hydrogen and live organ atoms. They are bonded through Hydrogen banding: The force of attraction present between atom of hydrogen and the	
	Water materiale consists of one Hydrogen and two arguen atoms. They are bonded through Hydrogen bonding: The force of attraction present between atom of hydrogen and the most electronegative atoms	
	Malez malecule Consists of one Hydrogen and luw arggen atoms. They are bonded through Hydrogen banding: The force of attraction present between atom of hydrogen and the most electronegative atoms like Ordgen Nitrogen, Carson etc.	
	Water materiale consists of one Hydrogen and two arggen atoms. They are bonded through Hydrogen bonding: The force of attraction present between atom of hydrogen and the most electronegative atoms like Origen Nitrogen bonding.	
	Water malecule consists of one Hydrogen and luw argen atoms. They are bonded through Hydrogen bonding. Hydrogen bonding: The force of attraction present between atom of hydrogen and thre most electronegative atoms like organ Nitrogen, Carron etc is called Hydrogen bonding.	
	Water materiale consists of one Hydrogen and two arggen atoms. They are bonded through Hydrogen bonding: The force of attraction present between atom of hydrogen and the most electronegative atoms like Origen Nitrogen bonding.	



Do	ıte:		
		-=-	7.3
	which are briltle and hard		4
	and used in making of		
	pottery and utensils.		
	Cerómics can be ordere		
	assanged or non-ordery.		
(تنن)	Insecticides:		
	Insecticides age		
	type of pesticide which kill		
	insects in crops.		
	They specifically target		
	insects.		
(iv)	Hesticides:		
	Herbicides are		
	type of pesticide which		•
	Kill heabivores		
<u>(۷)</u>	Crucen House Effect:		
	Chreen		,
	House effect can be defined		
	as the teapping of common UV	-ny	<u> </u>
and Cou	on droxide (Co,) into the earth	1	
	and resultently increase in the	- -	
	rose of temperature of the		
	earth,		•
	The Ultraviolet Gadiations are	3 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	coming from the atmosphere.	7.56	
	Due to ozone depletion they		
	oute not stopping there and increase the temperature of earth		
	increase the temporalise of earth	•	
			33

	Dale:		
	And the second s	Briefly explain each	
	Types of MO RADAR	Radio waves	
3	SONAR	Electomagnetic Waves	
-	Mobil Phone	Electromagnetic wares	
->	Thermistors	Micro water	
->-	LIDAR	Electromagnetic waves	
	Se	ction I	
08.6(4)	Solutioner		
		ase in valo=312	
	Suppose/ num	16es arc = 6&4	
=	3	2	
	blecomes =	added to 6 , it also 6 added to $4 \Rightarrow 6 + 4 = 10$	**
	ond 6 i	hare;	

		The sale and sale sales and sales an
=)	8:10	
=>	. 435	
	The numbers are 6 and 4 initially	
	and after (B and 10.)	
	Answer: 8 & 10	
	<u> </u>	
(a)	Solution:	
*	A farmer cuts a 300ft fince	
	into two pieces.	
	The longer pieces length 260th	
7	The shorter preces length = 40ft	
	← →	
	/	
<u>(c)</u>	Solution:	
. 3	Root Percentage of Won matches = 60%.	
=	Lost matches= 24	
<u>⇒</u>	Total number of matches=?	
<u> </u>	Percentage of lost matches 24 x 100	****
	go Total number of mother [100]	
$\Rightarrow \downarrow$	80, Total number of mother=1200]	
		Marie Control of the



	Date:	
<u>(d)</u>	Mean, Mode, Range, Medium?	
	Mana	197
	Mean: The average of total	
	number by adding them	
	and then dividing by their	
	total number.	
\rightarrow	Mode:	
	The depended value in	
4	set of numbers s called	
e e e	mode.	
	Ronge	
	The difference between	
	the highest and shorter value.	
	$R = R_1 - R_2$	
	Medium:	
	The central values in	
	a set of entities is called	
	me dium.	
	Criven data:	. 4
	Mean = 15+15+16+16+17+17+18+19+16	
	9 /	
	= 14919 (= 16.5)	
	Mode 16	
e e e		
_0	Rage = 19-15	
	J (= 4)	-8
-0	Medium z (16)	