Respected sir, I'm Rehmat who has been suffering from FSHD, I belong to rural Boluchistan. Please Allah sake evaluate my complete paper. This platform is the only source of guidance. Please go through full paper.



FEDERAL PUBLIC SERVICE COMMISSION **COMPETITIVE EXAMINATION - 2016** FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

	OWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
PART-I(MC	CQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARKS = 80
NOTE: (i)	Part-II is to be attempted on the separ	ate Answer Book.	
(ii)	Attempt ONLY EIGHT questions	from PART-II,	selecting FIVE questions from
27770	SECTION-I and THREE questions fr	om SECTION-II. A	ALL questions carry EQUAL marks.
(iii)	All the parts (if any) of each Question	n must be attempted	l at one place instead of at different
	places.		
(iv)	Candidate must write Q. No. in the An	swer Book in accord	lance with Q. No. in the Q.Paper.
(v)	No Page/Space be left blank between		
	be crossed.		
(vi)	Extra attempt of any question or any p	art of the attempted	question will not be considered.

PART-II

		PART-II	
		SECTION-I	
Q. No. 2.	(a)	What were the main objectives of Clean Development Mechanism? Also explain the reasons for the criticism on Koyoto Protocol by the developed countries.	(5)
	(b) I	Differentiate between Sanitary and Industrial Landfills, also describe the land selection criteria for Landfills.	(5)
Q. No. 3.	(a)	Write a short note on artificial intelligence.	(5)
	(b)	Write short notes on: (2½ each) (i) Fibre Optics (ii) Global Positioning System	(5)
Q. No. 4.	(a)	What are vaccines? Classify these and discuss DNA vaccines in detail.	(5)
	(b)	What are causative organism and vector for dengue, enlist possible ways of prevention from dengue.	(5)
Q. No. 5.	(a)	Comment, 'liver is the chief chemist in human body'.	(5)
	(b)	What is Cholesterol? Discuss its importance, normal blood level and dangers of elevated levels with reference to the health and disease in humans.	(5)
Q. No. 6.	(a)	What do you know about the Remote Sensing Techniques? Explain resolution and write down the names of its various types?	(5)
	(b)	What is hydrological cycle? Discuss its importance.	(5)
Q. No. 7.	(a) V	What is tsunami? How the tsunamis generated and what are their characteristics?	(5)
	(b)	What is an earth quake? Discuss Richter Scale in this context. What was the intensity of the earth quake in Pakistan dated 26 October 2015 and where was the locus?	(5)
Q. No. 8.	(a)	Explain the shape of water molecule with the help of Molecular Orbital	(5)
	(b)	Theory, also draw its orbital diagram. What are the gamma rays? Explain their applications.	(5)
Q. No. 9.	(a)	Discuss importance of preservatives and antioxidants in food.	(5)
	(b)	Comment, Green House Effect is a blessing. Also discuss Enhanced Green House Effect and its relation with global warming.	(5)

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

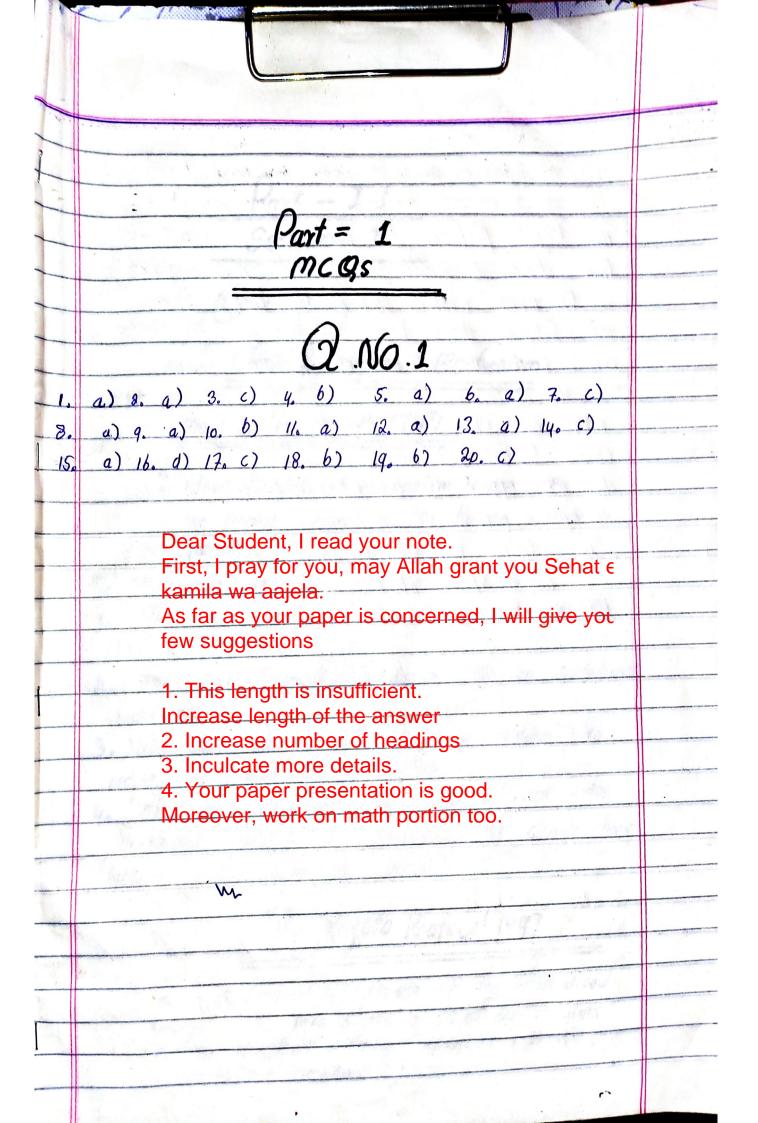
SECTION-II

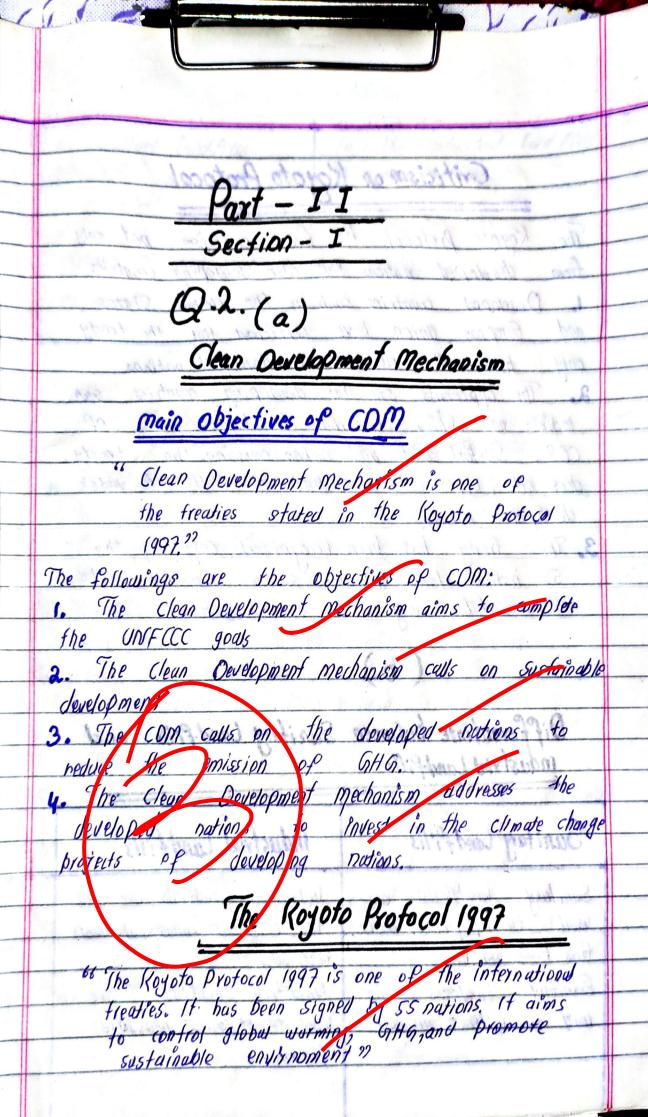
- Q. No. 10. (a) Define and draw the following: (21/2 each) (5)Equilateral triangles Rightangle triangles (ii) There are nine students in a group having ages 15, 15, 16, 16, 16, 17, 17, 18, **(b)** (5)19. Calculate mean, medium, mode and range of their ages also define the above mentioned terms: Q. No. 11. (a) A distribution company provides households to departmental stores within a 50 (5)kilometers radius. The table below shows how far each departmental store is from the godown of the distribution company. Distance from the godown of the Number of distribution company Stores 03 10 kilometers or less 11 to 20 kilometers 15 21 to 30 kilometers 26 31 to 40 kilometers 20 41 to 50 kilometers 16 How many stores does the distribution company serve? (i) (ii) What is the most common distance of stores from the company's godown? (iii) How many stores are 35 Km or more from the godown? What percentage of stores are 31 Km or more from the godown? (b) Read the following carefully and answer the questions following: (5)Ahmad, Ali, Akbar, Nasir and Shehbaz are students of a college having different heights and weights. Ahmad weighs thrice as much as Ali and Ali weighs 5 times as much as Akbar. Akbar weighs half as much as Nasir and Nasir weighs half as much as Shehbaz. (i) Who is the heaviest in weight? (ii) Who is the is the lightest in weight? Shehbaz is lighter in weight than which of the two students? (iii)
 - (iv) Shehbaz is heavier than which of the two students?
 - (v) Show the descending order of weights of the students?
- Q. No. 12. (a) Classification of blood groups is based on the presence or absence of inherited antigenic substances on the surface of red blood cells. In a survey of British population the blood group distribution among 1000 people was as follows: 300 had blood group A, 325 had blood group B, 250 had O and 125 AB. Out of this group a person was selected at random, calculate his probability of having blood group AB
 - (b) Five friends Ahmad, Ali, Akbar, Nasir and Shehbaz went on summer vacation to five cities namely V, W, X, Y and Z by five different modes of transport, that is by bus, train, aeroplane, car and boat from point A. Akbar went to Y by car and Ali went to X by air. Nasir travelled by boat whereas Shehbaz went by train. For X and W there is no bus service. The person who went to X did not use boat to travel. Now answer the following questions.

(5)

(5)

- (i) How did Ahmad travel and where did he go?
- (ii) Which mode of transport was used by the person who travelled to X city?
- Q. No. 13. (a) Differentiate between primary and secondary mental abilities. How the general mental ability scales differ from IQ test. (5)
 - (b) Y = mX + C is an equation of straight line. Draw a graph showing relationship between X and Y and relate the equation to the slope and intercept on the graph.





Criticism on Koyoto Protocol

The Koyoto Protocol has faced criticism not only from developed nations but also developing countries.

1. Developed countries such as the United States and European Union have criticised that the treaty only hurts the economies of developed nations.

2. The apponents say that developing countries such inclia and China contribute to buge amount of CO2, Surfarl Oxide and Carbon emission. The treaty closs not appose the contribution of AHC of under developed nations.

3. The freaty has been recognized only by the 55 nation states which seems incapable to hold accumtable everyone for climete fustice

b

Differentiate between Sanifary Landfills and Industrial Landfills

	Sanifory Landfills	Industrial Landfills
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	from roads and houses,	materials.
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		items
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	the human population us during the lundfills? Process	
	of disposal different toxic chemicals and gases	
	erteract	
	2. Landfills should be created for away from	The second second
	water bodies such as dam hiver and streams.	
	3. Before, the establishment of Landfills, there must	
	be assessment on the wocation in a more	
	4. Landfills must not be created where	
	biplines of gas or water erist.	
	5. Landfills must be far away from agricultural	
	activities.	
	10 Chateat love here seeiling which the court	
	has on he had a country of the count	
	Sustantial Control of the same	
	6. At bosel with the come and the	
	Michelling Pener Elite from Notes	
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3. Assisting human	ns to wo	id hisky situate	An Cornorius
during disasters		or many or many	s is the ba
4. Chatbots buse to		g educationalists	in their
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Disadvantages of Al

1	
	1. The usage of Al25 charbot has been bromoting rate
-	learning in the education, social literature, science and
	economic offairs
-	2. Al is a threat to critical thinkers.
-	3. Robotic toxi cars have been pushing unemployment.
-	4. The use of all pobotic drones contributed
	to the death toll of civilians in wars.
	5. Al is a threat to privat and cyber security
	Terrorists occess to Al based robotic drones
-	muy eliminate the lives of innocent civilions.
-1	

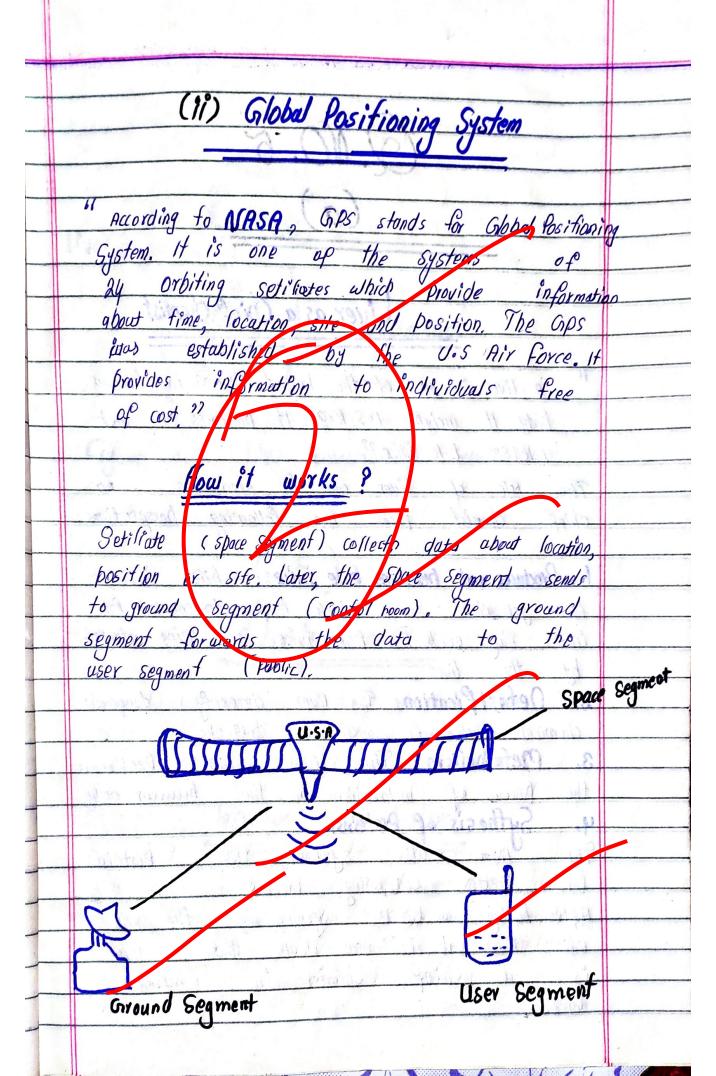
(b)

Short notes

(i) Fibre Optics

Fibre Optics refers to strands the pure glass thin from human hair which corrier digital information long distance The Pibre Optics is long torm and durable better computer cation 11 is bever than traditional which have United of istence Wires The Pibre life. the stort might project expensive of any performs. Framendo sly later

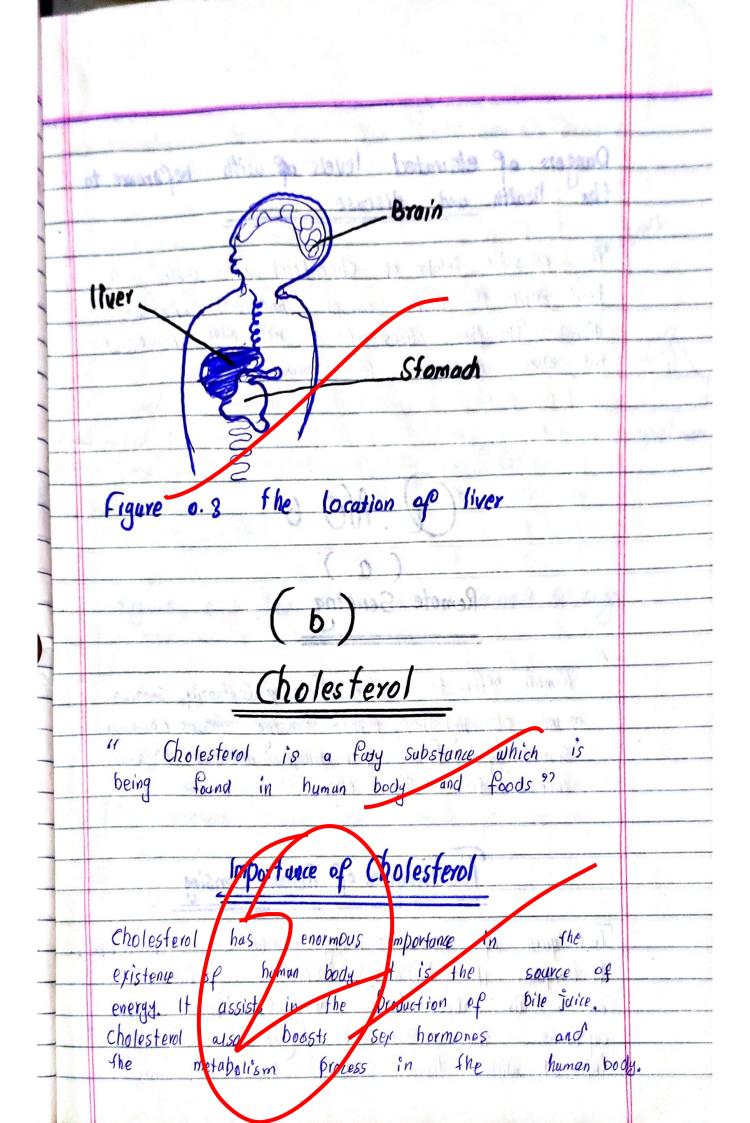
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-	11 SV TONOS VATILOS SEL
4	Types of fibre Optics
4	
	(1) Single mode optics
	The single made of Fibre optics is used for
	long distance.
	the state of the s
	(a) multiple mode optics
	The multiple mode optics is used for near
	and multiple distances.
	get to them to printed and taken and the
	Structure of Fibre Optics
	Supplied to the state of the state of the supplied of the supp
	1. Core: light travels, it carries digital information.
	The core is being made ef a thin Dure gloss.
	2. Clading: It is upon the core which perfects back
	information in the form of light
	3. Cod: The cover which protects the fibre optics.
	4. Jacket: The final covering of the fibre
	(V) Store 100 the
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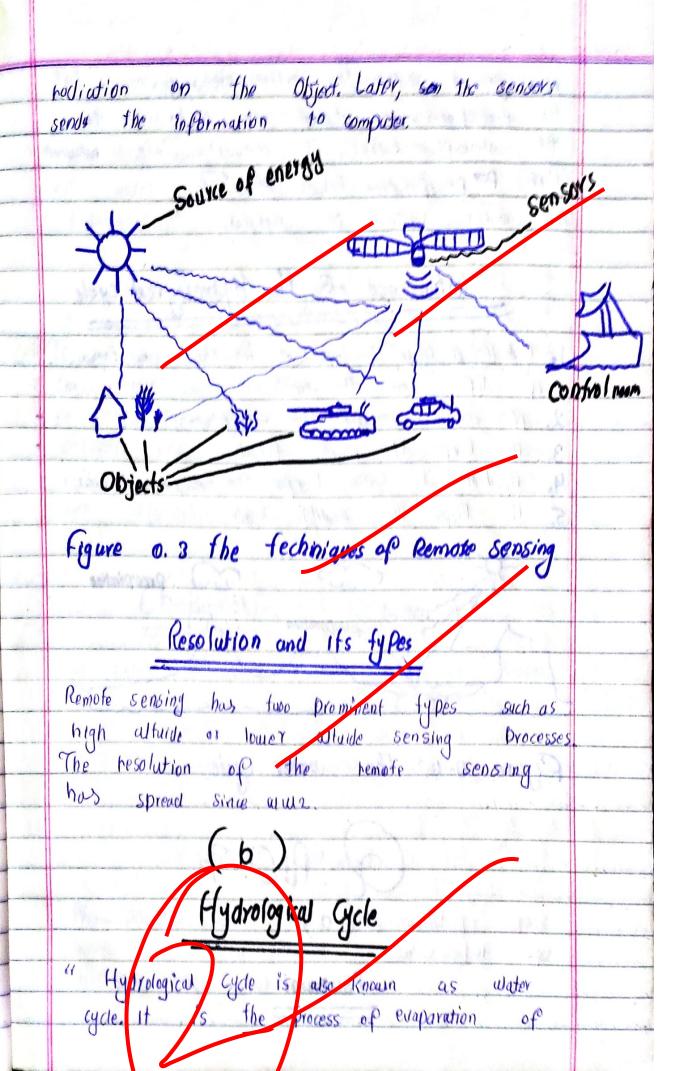
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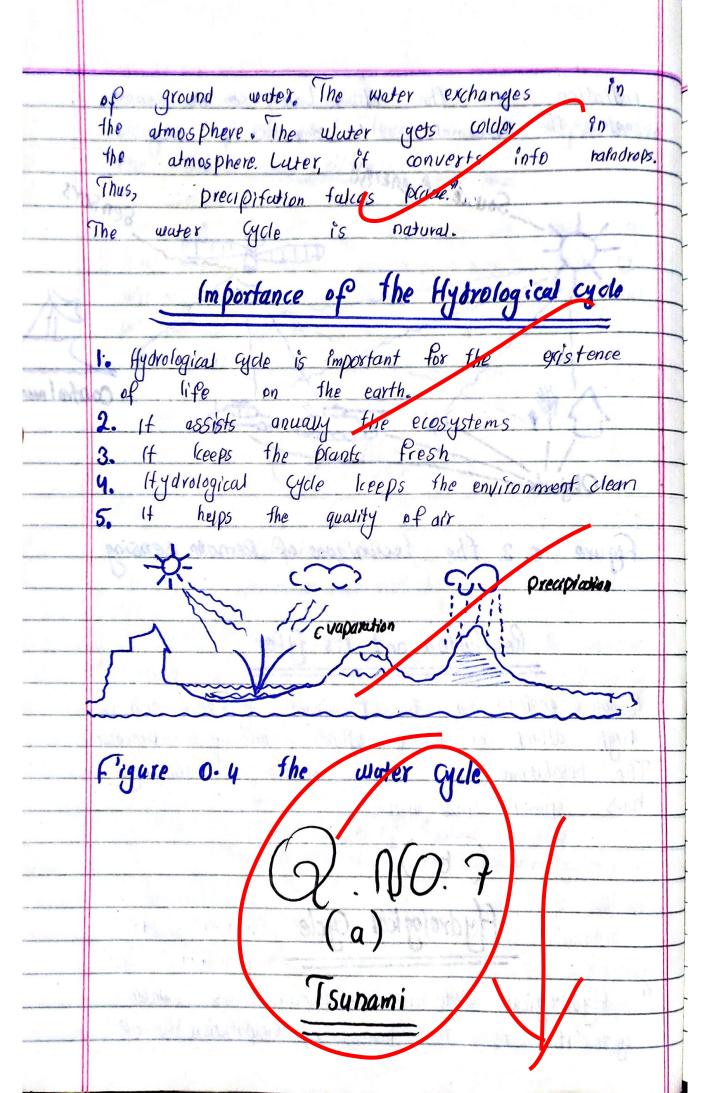
Liver as a Chief Chemist

ı	the state of the s	
†	A liver is one of the largest organs in human	
	body. It weighs 1.5 K.g. It broduces and	
	pelea ses bile juice."	
	The hole of liver can be seen as ca	
	chief chemist from the following perspectives:	
	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	1. Produces and freleases bile juice: A bile juice	
	is yellowish Juice which helps to convert fats	
-	into Pary acids. The bile Nice is being controlled	
-	by the truer.	
-	chemicals or elements such s drug etc	
	chemicals or elements such s drug etc	
-	3. Metabolism: The yer wso performs	
	the process of moubolism in the human body.	
	4. Sythesis of Proteins:	
24	The liver also sythesize the Proteins	
	for better consuming blocess.	
	After having a bird's egeview of the role	
- Charge	ef liver It is your clean that liver	
	is a Chief Chemist in human	
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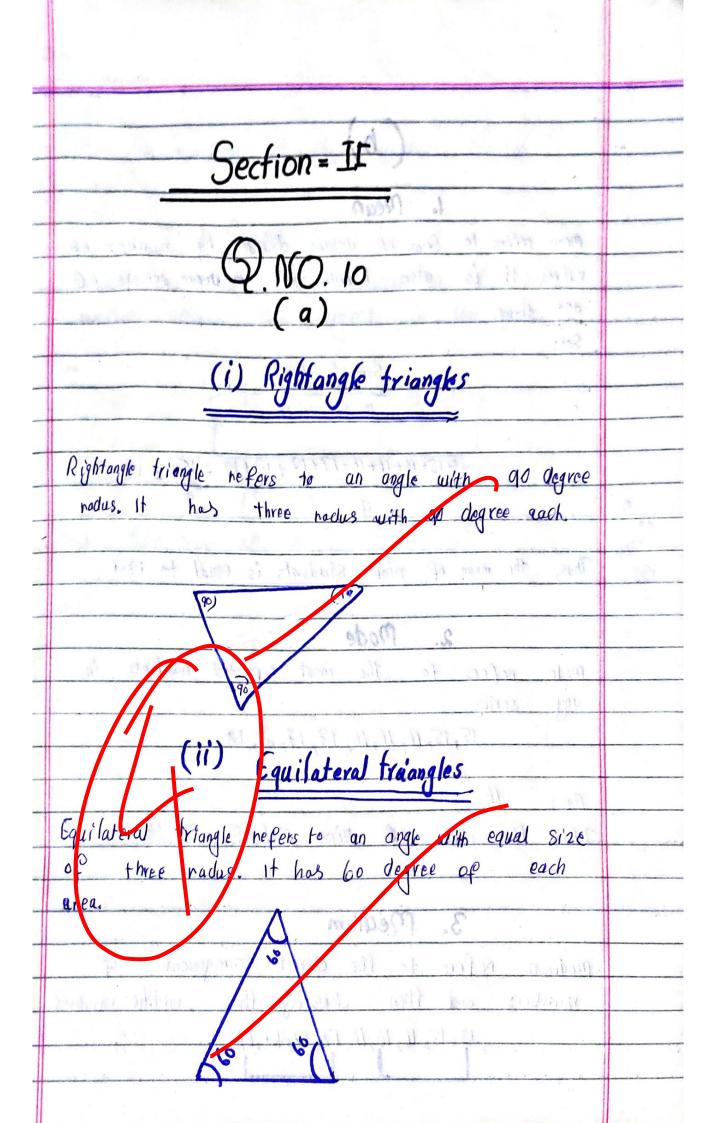
The excessive intake of Choesterol con cause a heart aback. It also causes numerous chronary diseases. Therefore, Choesterol is not only benefical but also dangerous for humans. (2) NO 6 (a) Remote Sensing. Il Remote hefers to something faraway. Contrarty, Sensing means Observing. Thus, femote sensing means Observing. Something from far away without physical causes to the object?	the	no of elevated levels with reference to health and disease
heart aback. It also courses numerous chronory dispases. Therefore, choesterol is not only benefical but also dangerous for humans "Remote Sensing "Remote hefers to something furaway. Contrarty, sensing means observing thus, remote sensing means observing something from far away without physical fuces to the object? Techniques of Remote Sensing involves humans techniques of remote sensing involves numerous techniques. It includes sensors install an air ballow or above the sensors captures the site or targer of		
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	4 Tsupomi is dervied from Japanses words	
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	But thing the for her October and Original Property	
	Historical Isunami	
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	World Bank US \$ 235 loss in economy and	
Ţ	120,000 People died.	
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	(b)
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	A polytopic of the second of t
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	volcanic activities 39
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	According to Pakistan Metrological Organization (PMO)
	the intensity of the earth qualite was
W	dol magnetite, the locus was in the
	deep epicenter of 145 km in Badkshan brownie
	of Afghanistan,



(b) "11011ps 1. Mean mean refers to sum of values divide by number of values it is also known as an . average op dry thing. Sur of values no of values 19515+16+16+18+17+10+19 = 154 = 17.1 Thus, the mean of Onine students is equal to 17.1 Mode 2. nefers fo mode the most repeated numbers any series 15, 15, 16, 16, 17, 17, 18, 19, Ans: 16 Thus, the mode of nine students is 16. 3. Medium medium refers to the correct arrangement go numbers and then chosing the middle numbers. 15, 15, 16, 14, 16, 17, 17, 18, 19

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