G.S.A. CS8.24. Q: What is the tuber culosis and Hepatitik? Explain Briefly. Answer: Tuberculosis: Inbernabosis is caused by bacteria Mycobacterium tuberculosis, which attacks the lungs. It can attack other parts of the body as well, such as the kidney, spine or brain. It spreads though the earn one breathes. The exaptoms of tuberculosis include cough, chest pain, fever, night sweats, chills, loss of appetite, wealness and weight loss. It can be diagnosed mough blood tests. The treatment of fullerulosis include taking aufi biotic and sometimes isolation is prescribed for preventing further spreading. Attempt by giving Hepatitis It is the inflammation of the liver cauld by viruses, bacterial infections or continues expicure to alcohol, drugs, toxic chemical and people having fatty liver also suffer trepatitis. The symptoms include weakness, fatigue, fever, abdominal painer. The treatment of hepatitis is done by a drug called interferon. There are 10 different types of hepatitis such as HAV, HBV, HCV



Date Explain the mechanism of Fiber Optic cable for signal. Explain its construction. Day 6) C) Optical fibre are the line pure glass lines which are used for campung information The form of light rays light travels down an optical fibre calle by bouncing repeatedly off the walls - The light hit the glass ad a shallow ang le re. less than 42 degrées, il veflects back in il again. This pocess is called total internal reflection. Wapped grand the core is another ayer of glass called cadding. It keeps the light inside the core. Draw the structure as well Optics: Fibre optics are used in diverse jelds such as military. endescopic imaging remole sensing. sadelite sensing etc. It also elps in connectivity Dy. Poviding faster information Wansfer as compared to traditional Copper fibre Cladding Refraction material (glass) eating of non refracting Core material. -> emerging light. entening fibre



	Bud h	11 Provence Linking	Aliddia -
y	Explain th	e difference between	n Middle
	Catifude Cy	clone and Torna	loes.
	Following are the differences between		
	Middle latind	le cyclone and tori	rados
	Middle latitude Cyclone Tornado		
		They are formed	
		by rapidly swirling	Spinning
	100 States	air masses around	column of
		and the second	air that
		a low-pressure core, which vesult	
			between
		in stormy and	two eastly
		Aten destructive	
		Weather-	surface and
		$\left \begin{array}{c} \\ \\ \end{array} \right $	a cloud.
	1		
		V5) (5)	393
			大山
	Formation	Dynamic interaction of	warm, hu-
		warm tropical and	mid air with dry
	Have, level	Cold polar air Massive and destructive	high speed wind, violent
	Circum ference	wide	Sniall
	Diameter		300-400 yards
	wind speed	200 km	
		50 km/h	290 km/h less than
N	Duration	3-10 days	10 minutes



what is the difference between lonic d) and comfent bonding? Give examples. lonic bond: It is a bond in which one or more pair electron are removed or attached to another atoms resulting positive and negative ion Covalent Lond: It is a bond that one or more pairs of electrons are shared by two long Examples- $\frac{\text{onic}: Na^{\bullet} + \cdot \tilde{c}l: \rightarrow Na^{\dagger} + \tilde{c}\tilde{l}}{\circ M_{9} + \tilde{o}\tilde{s} \rightarrow M_{9}^{2+} + \tilde{o}\tilde{c}^{2+}}$ Covalent: $\frac{H \cdot + H \cdot \rightarrow H : H \circ H - H}{: \tilde{c} \cdot + \cdot \tilde{c} : \Rightarrow H : \tilde{c} : : \tilde{c} : - \tilde{c} :$ Add more points in differences

