	Alrignment! CN
7) Sept 202	Acrignment! CN Page Page
0.1:	Numericals'-
- 11	Numericals!- Based on Friequency:-
(a)	An Em Wave has wavelength 1 = 150m and propogates
	v = 3×108 m/s find its frequency.
(b)	An Em Wave has wavelength 1 = 150m and propagates v = 3×108 m/s find its frequency. A digital clock signal operates at f = 2GHz. find its
(c)	The bit awation in sugar sura so as a sort
	The bit duration in digital link is 250 ns. find the clock forequency of teransmitter.
1	Based on Amplitude?
[0]	The Voltage of a sinewave is given by!
	$v(t) = A \sin(2\pi \cdot \cot + 90)$ At $t = 0$, the measured
	Voltage is 5 V. find the amplitude A.
(b)	A sinewave has period T = 4ms and is given by!
	$V(t) = A \sin(2\pi f t + 0^\circ)$
	At t= Ims, the Voltage is 3V. Find A: The sinewave r(t) = A sin(21.60t + 30°), Att=0,
(c)	The sinewave r(t) = A sin(21.60t + 30°), A+t=0,
	the voltage is 4v. find A.
	1017 011 7h
(iii)	Based on Phase?
(a	its phase in degree and eladian.
	its phase in degree and eladian.
(b)	A Component that impedance z = Rtjx with R=30.0
(a)	and x = 40 st tind the phase rangle of 2.
(x)	A Component has impedance z = Rtjx with R=30.01 and x = 40 st find the phase angle of 2. A phase is - 144°. What fraction of a Cycle is the?
	Based on Period!-
(a)	A sinewave has a frequency of t= 50 Hz find its Povint
	A sinewave has a frequency of f = 50 Hz. Find its Period I in Seconds. A sinewave has angular frequency w = 628 read/s. find its period T:
(b)	A sinewave has angular frequency w= 628 read/s. find its period To

(a) An Ac signal has frequency f= 2kHz. find T. (V) Based on Wavelength a) A Sound wave travels at a speed of V= 340 m/s and has a frequency f=170 Hz. tind its wantlength. b) & gradio wave forvels at the speed of light (3x108 m/s) and has a frequency of 100 MHz. find 2. 6x 10 14 Hz. find its wavelength. Q2. Define NyQuist formula and define Shenon formula. D' Explain data link protocols je HDLC and PPP.