Model Question Paper

Communication systems - Part IV

12th Standard

	12til Stalldard			
	Physics Reg.No.:			
	I.Use blue pen only.			
	II.Answer all questions.			
Tir	me : 01:00:00 Hrs	Total	l Marl	ks : 9
	Part-A		5)	x 1 =
1)	The maximum frequency range of USB ofa AM signal is 10.005 MHz and the frequency of the carrier wave is 10 MHz then the channel width is			
	(a) a) 50 kHz (b) b) 5 kHz (c) c)10 kHz (d) d) 0.005 kHz			
2)	The resting frequency of a FM signal wave is 310 MHz and the highest frequency is 310.02 MHz. When modulated by a signal then the (i) frequency deviation	and (i	i) car	rier
	swing are			
	(a) a) 0.02MHz; 4kHz (b) b) 4MHz; 20 kHz (c) c) 20 kHz; 40 kHz (d) d) 20 kHz;40 MHz			
3)	The radio waves propagated through the troposphere of the earth are known as			
	(a) a) Sky wave (b) b) Space wave (c) c) Ground wave (d) d) Surface wave			
4)	Which layer of atmosphere absorbs large amount of radiant energies?			
	(a) a)Chromosphere (b) b) Ionosphere (c) c)Troposphere (d) d) Exosphere			
5)	In television system, the frequency of scanning is frames per second			
	(a) a) 25 (b) b) 625 (c) c) 50 (d) d) 15625			
	Part-B		8 x	3 = 2
6)	what are the advantages of fiber optic communication system?			
7)	Draw the block diagram of superheterodyne FM receiver.			
8)	Define sensitivity and selectivity.			
9)	State the principle of videcon.			
10)) What is called RADAR?			
11)) What is called Buffer?			
12)) What is phase modulation?			
13)) What is meant by scanning?			
	Part-C		3 x	5 = 1
14)) What are the merits and demerits of sat <mark>elite co</mark> mmunication sy <mark>stems?</mark>			
15	What are the advantages and disadvantages of digital communication?			

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16) Explain space wave propagation of radio waves.
