2019 VI 12	1430	Sea	t No.		
fime : 2 Hours	AP	PLIEI			NSUME RONICS
	Subject Code				
	V 3 3 3				
Fotal No. of Questions : 5	(Printed Pages : 2)	Maxi	mum	Marks :
Instructions:-1) Answ	wer each question on a	fresh pa	ge.		
	te the number of the qu			b-ques	tions
clea					
3) All q	uestions are compulsor	γ.			
	res to the right indicate				5
5) Drav	w neat labelled diagram	wherev	er nec	essary.	
Q.1) A) Fill in the blanks:-	-				(2)
i) The technical standard for		n over a	mobile	e wirele	ess
network is					
ii) The IF value of AM recei	ver is				
B) Answer the following	:-				(6)
i) Draw the symbols of zen	er diode and LED. Give	an appli	cation	of each	า.
ii) Give an application of th	e following w.r.t cell ph	one tec	hnolog	У	
	c) EDGE			: :	
C) Answer the following:		19			(2)
i) State the application of [Data Port and Micropro	cessor ir	na MP3	3 playe	r.
Q.2) A) Answer the follow	wing:-				(2)
i) Define Offset voltage of	an op- amp.				
ii) State the function of Ton	ne control circuit of a rad	dio rece	iver.		
B) Answer the following:	-				(6)
i) Give two points of differe				orid	
circuits. State any two ad					
ii) Draw the logo of Bluetoo	oth. State two disadvant	tages of	Blueto	oth	121.12
Technology.					
C) Answer the following	:-				(2)
i) State two advantages o					
V-333]	1				P.T.

Q.3)A) Fill in the blanks:-	(2)
i) The tones of higher frequency are interpreted by the listener as	
ii) The circuit that makes the op-amp with single ended output is	-
B) Answer the following:-	(3)
i) Draw a neat labelled diagram of a Crystal microphone and give an application of it.	L
C) Answer any <u>one</u> of the following:-	(5)
i) With neat diagrams explain the formation of AM wave. State	
the use of AGC circuit in AM receiver.	
ii) Draw a neat block diagram of FM superhetrodyne radio receiver. State	
the use of limiter in a FM receiver. Give two points of differentiation	
between AM and FM waves.	
Q.4)A) Answer the following:-	(2)
i) State the distance of the ionospheric layer from the earth's surface.	• •
ii) Name the rotational system used in a CD player.	
B) Answer the following:-	(3)
i) What is Erasing of an audio tape? State the application of any two	• •
speakers of a Digital home theatre system.	
C) Answer any <u>one</u> of the following:-	(5)
i) With a neat block diagram explain the tuner and sound section of a	(-)
TV receiver. State the function of blanking pulse used in TV transmission	۱.
ii) Explain the tuner and video section of a TV receiver with a neat block	
diagram. State the function of LNB in a DTH system.	
	(40)
	(10)
i) Name the two types of loudspeakers. Why is impedance matching of	
microphones and loudspeakers necessary?	
ii) Draw the wave produced by an oscillator in a radio transmitter. State	
the use of this wave.	
iii) State two advantages of storing information in digital format.	
iv) Draw the diagram of PN junction formation using alloying technique.	
State the advantage of diffusion method.	
v) List any four applications of TFT- LCD's.	

[V-333]