

2018 III 15		1000	Seat No. :		
Time : 2 Hours	APPLIED	AND CONSUMER	ELECTRONICS (New Patte	rn)	
		Subject Code			
		V 3 3 3			
Total No. of Questions : 5 (Printed Pages : 3) Maximum Marks					
INSTRUCTIO	NS: i) Answe	er each question on a	fr esh page.		
	ii) Write t	he number of each que	stion and sub-question clearly .		
	iii) All qu	estions are compuls o	ory.		
	iv) Figure	es to the right indicate	e full marks.		
	v) Drawi	neat labelled diagram	s wherever necessary.		
1. A) Fill in the b	lanks :			[2]	
1) The typ	e of IC which	is used to perform I	near operation on signals is		
2) Tiny pe		m is melted upon the technique.	surface of an n-type crystal in		
B) Answerthe	e following :			[6]	
1) With the	help of a block	k diagram explain Op-a	amp as a multi-stage amplifier.		
, ,	diffusion meth over Alloy me		n. State one advantage of this		
C) Answerthe	e following :			[2]	
Give one p		nce between Analogu	e IC and Digital IC. Give one		



2.	A)	Answer the following: 1) Give one advantage of storing information on a CD. 2) Name a device of a CD player that reads or writes informations on a CD.	[2]
	B)	Answer the following:1) How is signal processing done in a CD player?2) With the help of a neat labelled diagram explain the working of a dynamic microphone.	[6]
	C)	Answer the following: Two speakers of 8 Ohms are to be connected to a 100 watt amplifier with 4 Ohm output terminals. Draw the wiring diagram to connect these speakers to the amplifier. Why impedance matching necessary in PA system?	[2]
3.	A)	Fill in the blanks: 1) The sky waves in radio communication are reflected in the sky by 2) The ability of the radio receiver to receive the weak signals is called	[2]
	B)	Answer the following : State one function of a tone control circuit in radio receiver. Define AGC and AVC with respect to radio receivers.	[3]
	C)	 Answer any one of the following: Draw the block diagram of AM superheterodyne radio receiver. What are the properties of radio wave? Why is a ground wave a weak wave? Draw the block diagram of a FM superheterodyne radio receiver. Explain how Limiter on FM receiver eliminates noise in FM reception. State IF value of FM and AM receiver. 	[5]
4.	A)	Answer the following:1) Name the primary colours of a coloured television.2) State the scanning sequence of lines and frames in television communication system.	[2]
	B)	Answer the following: State any two advantages of a DTH system. Name any two types of TFT technologies.	[3]

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C) Answer any one of the following:

[5]

- Name any two types of camera tubes and state their working principle. Draw a neat block diagram of the video section of a B/W TV. State two stages of a TV tuner.
- 2) What is a composite video signal? Draw waveform to identify the three components of composite video signal. State field frequency and picture frequency in international standard recommendations.

5. Answer the following:

[10]

- 1) State the function of a SIM used in Cell phone. What are the advantages of Bluetooth Technology?
- 2) State two limitations of Cordless Telephone over a mobile phone.
- 3) Name different speakers used in a 5.1 home theatre system.
- 4) Differentiate between DVD's and a CD. (any two points)
- 5) Give the full form of IMEI and GPRS.

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