Signature and Name of Invigilator	Answer Sheet No.:								
	(To be filled by the Candida	t€							
1. (Signature)	Roll No.	_							
(Name)	(In figures as per admission care	<u>d</u>)							
2. (Signature)	Roll No.								
(Name)	(In words)								
D_8807	Test Booklet No.								

000/

PAPER-II

ELECTRONIC SCIENCE Time: $1\frac{1}{4}$ hours [Maximum Marks: 100

Number of Pages in this Booklet: 16

Instructions for the Candidates

- 1. Write your roll number in the space provided on the top of this
- This paper consists of fifty multiple-choice type of questions.
- At the commencement of examination, the question booklet will be given to you. In the first 5 minutes, you are requested to open the booklet and compulsorily examine it as below:
 - To have access to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accept a booklet without sticker-seal and do not accept an open
 - Tally the number of pages and number of questions in (ii) the booklet with the information printed on the cover page. Faulty booklets due to pages/questions missing or duplicate or not in serial order or any other discrepancy should be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the question booklet will be replaced nor any extra time will be given.
 - After this verification is over, the Serial No. of the booklet should be entered in the Answer-sheets and the Serial No. of Answer Sheet should be entered on this Booklet.
- Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the oval as indicated below on the correct response against each item.

Example: A B







where (C) is the correct response.

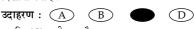
- Your responses to the items are to be indicated in the Answer Sheet given inside the Paper I booklet only. If you mark at any place other than in the ovals in the Answer Sheet, it will not be evaluated.
- 6. Read instructions given inside carefully.
- Rough Work is to be done in the end of this booklet. 7.
- If you write your name or put any mark on any part of the test booklet, except for the space allotted for the relevant entries, which may disclose your identity, you will render yourself liable to disqualification.
- 9. You have to return the test question booklet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall.
- 10. Use only Blue/Black Ball point pen.
- 11. Use of any calculator or log table etc., is prohibited.
- 12. There is NO negative marking.

परीक्षार्थियों के लिए निर्देश

Number of Questions in this Booklet: 50

- 1. पहले पृष्ठ के ऊपर नियत स्थान पर अपना रोल नम्बर लिखिए।
- 2. इस प्रश्न-पत्र में पचास बहविकल्पीय प्रश्न हैं।
- 3. परीक्षा प्रारम्भ होने पर, प्रश्न-पुस्तिका आपको दे दी जायेगी। पहले पाँच मिनट आपको प्रश्न-पुस्तिका खोलने तथा उसकी निम्नलिखित जाँच के लिए दिये जायेंगे जिसकी जाँच आपको अवश्य करनी है:
 - प्रश्न-पुस्तिका खोलने के लिए उसके कवर पेज पर लगी कागज की सील को फाड़ लें। खुली हुई या बिना स्टीकर-सील की पुस्तिका स्वीकार न करें।
 - कवर पृष्ठ पर छपे निर्देशानुसार प्रश्न-पुस्तिका के पृष्ठ तथा प्रश्नों की संख्या को अच्छी तरह चैक कर लें कि ये पूरे हैं। दोषपूर्ण पुस्तिका जिनमें पृष्ठ / प्रश्न कम हों या दुबारा आ गये हों या सीरियल में न हों अर्थात किसी भी प्रकार की त्रृटिपूर्ण पुस्तिका स्वीकार न करें तथा उसी समय उसे लौटाकर उसके स्थान पर दूसरी सही प्रश्न-पुस्तिका ले लें। इसके लिए आपको पाँच मिनट दिये जायेंगे। उसके बाद न तो आपकी प्रश्न-पुस्तिका वापस ली जायेगी और न ही आपको अतिरिक्त समय दिया जायेगा।
 - (iii) इस जाँच के बाद प्रश्न-प्स्तिका की ऋम संख्या उत्तर-पत्रक पर अंकित करें और उत्तर-पत्रक की ऋम संख्या इस प्रश्न-पुस्तिका पर अंकित कर
- प्रत्येक प्रश्न के लिए चार उत्तर विकल्प (A), (B), (C) तथा (D) दिये गये हैं। आपको सही उत्तर के दीर्घवृत्त को पेन से भरकर काला करना है जैसा कि नीचे दिखाया गया है।

जबकि (C) सही उत्तर है।



- प्रश्नों के उत्तर **केवल प्रश्न पत्र I के अन्दर दिये गये** उत्तर-पत्रक पर ही अंकित करने हैं। यदि आप उत्तर पत्रक पर दिये गये दीर्घवृत्त के अलावा किसी अन्य स्थान पर उत्तर चिन्हांकित करते है, तो उसका मूल्यांकन नहीं होगा।
- 6. अन्दर दिये गये निर्देशों को ध्यानपूर्वक पहें।
- 7. कच्चा काम (Rough Work) इस पुस्तिका के अन्तिम पृष्ठ पर करें।
- यदि आप उत्तर-पुस्तिका पर अपना नाम या ऐसा कोई भी निशान जिससे आपकी पहचान हो सके, किसी भी भाग पर दर्शाते या अंकित करते हैं तो परीक्षा के लिये अयोग्य घोषित कर दिये जायेंगे।
- 9. आपको परीक्षा समाप्त होने पर उत्तर-पुस्तिका निरीक्षक महोदय को लौटाना आवश्यक है और परीक्षा समाप्ति के बाद अपने साथ परीक्षा भवन से बाहर न
- 10. केवल नीले / काले बाल प्वाईंट पैन का ही इस्तेमाल करें।
- 11. किसी भी प्रकार का संगणक (कैलकुलेटर) या लाग टेबल आदि का प्रयोग वर्जित है।
- 12. गलत उत्तर के लिए अंक नहीं काटे जायेंगे।

ELECTRONIC SCIENCE

PAPER – II

Note: This paper contains **fifty** (50) objective-type questions, each question carrying **two** (2) marks. Attempt **all** of them.

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	(A)	1	(B)	2		(C)	4	(D)	8
6.	The	minimum numbe	er of d	iodes neede	ed for	a brid	ge rectifier is :		
	(C)	Motorola's MC	1709		(D)	Nati	onal Semicono	luctor's L	M 709
	(A)	Fair Child μA	709		(B)	T.I S	SN 72709		
5.	The	first generation o	of IC (DP-AMP wa	s:				
	(D)	a current source	e alon	e					
	(C)	a voltage source	e alon	e					
	(B)	a voltage source							
	(A)	a current source	e with	ı an impeda	nce ir	para	llel		
4.	Nort	ton's theorem res	ults is	:					
	(C)	electric networ	K		(D)	non-	-linear networ	k	
	(A)	active network			(B)	pass	ive network		
3.	A ne	etwork which cor	ntains	one or mor	e than	one s	source of e.m.f	is know	n as :
	(A)	BJT	(B)	JFET		(C)	MOSFET	(D)	SCR
2.	The	Major Componei	nt of N	MOSIC is :					
	(C)	0.1 Micron			(D)	1 Ar	ngstrom		
	(A)	10 Micron			(B)	1 M	icron		
1.	In a	tunnel diode, the	widt	h of depletion	on lay	er is c	of the order of	:	

7.	The excess - 3 code for decimal number 19 is :								
	(A)	0100 1100	(B)	10011		(C)	10100	(D)	10101
8.	Digi	tal IC's do not use	e:						
	(A)	p-channel MOS	FET		(B)	n-ch	annel MOSF	ET	
	(C)	JFET			(D)	n-p-1	n transistor		
9.	An a	nddress is the num	nber ı	ised by the	centra	ıl proc	essing unit fo	or specifyi	ng a location
	(A)	Flag			(B)	Accu	ımulator		
	(C)	Memory			(D)	Stack	c Pointer		
10.	2×8	RAM stores :							
	(A)	8, 2-bit data wo	rds		(B)	2, 8-1	bit data word	ds	
	(C)	16, 1-bit data w	ords		(D)	1, 16	-bit data wo	rds	
11.	In a will	8-bit Microcompu be :	ıter ha	aving 8k by	tes of :	RAM :	Memory, the	length of	stack pointer
	(A)	5	(B)	8		(C)	11	(D)	13
12.	If th	e HLT instruction	of 80	085 Micropr	ocesso	or is ex	xecuted :		
	(A)	The microproces	ssor is	disconnect	ed fro	m the	system bus		
	(B)	The microproces	ssor e	nters into H	Ialt Sta	ate an	d the buses a	are tri-state	ed
	(C)	The microproces	ssor h	alts executi	on of	the pr	ogram and r	eturns to s	stop state
	(D)	The microproces	ssor re	eloads the p	rograi	n fron	n the location	0024H to	about 0025H

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13.	The	The input impedance of a folded dipole antenna is about :									
	(A)	100 ohms	(B)	220 ohms		(C)	377 ohms	(D)	280 o	hms	
4.4	A DI	NT 1: 1 :									
14.	A PI	N diode is :									
	(A)	a metal semicor	a metal semiconductor point contact diode								
	(B)	a microwave m	a microwave mixer diode								
	(C)	often used as a	often used as a microwave detector								
	(D)	suitable for use	as a r	nicrowave s	witch						
15.	A de	eemphasis circuit	is a :								
	(A)	high-pass filter	at the	transmitter	(B)	low-	pass filter at th	ne transn	nitter		
	(C)	high-pass filter	at the	receiver	(D)	low-	pass filter at th	e receiv	er		
16.		IC that contains verters is called a		and D/A c	onve	rters,	comparaters a	nd para	llel to	serial	
	(A)	CODEC			(B)	MO	DEM				
	(C)	Data Converter			(D)	Data	n Discriminator	•			
17.	The	PUT is :									
	(A)	not a thyristor									
	(B)	like the UJT									
	(C)	not a four layer	ed de	vice							
	(D)	triggered ON a	nd OF	F by the gat	e to a	node	voltage				
18.	The	value of the intri	nsic-st	and-off ratio	o for a	a UIT	is:				
-	(A)	more than 1	(B)	less than 1		(C)	equal to 1	(D)	0		
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- **19.** With the presence of feedback system the transient response :
 - (A) decays rapidly

(B) rises slowly

(C) rises quickly

- (D) decays slowly
- **20.** Electronic control systems have the problem of :
 - (A) operational difficulty
- (B) temperature sensitiveness

(C) low reliability

(D) high reliability

Questions 21 to 30: The following items consist of two statements, one labelled the "Assertion (A)" and the other labelled the "Reason (R)". You are to examine these two statements carefully and decide if the Assertion (A) and the Reason (R) are individually true and if so, whether the Reason is a correct explanation of the Assertion. Select your answers to these items using the codes given below

and mark your answer accordingly.

Codes:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is not correct explanation of (A)
- (C) **(A)** is true but **(R)** is false
- (D) **(A)** is false but **(R)** is true
- **21.** *Assertion* (*A*): Strain gauge is an active transducer.

Reason (R): Strain gauge converts mechanical displacement into change of

resistance.

22. *Assertion* (*A*): In a quartz crystal, at resonance the phase shift between output and input is zero.

Reason (R): Crystal oscillators provide an extremely stable and precise output frequency.

- **23.** *Assertion* (*A*): When a stable second order performance is improved by using a PID controller in its forward path, the system could become unstable.
 - *Reason (R)*: The PID controller increases the order of the system to three.
- **24.** *Assertion* (*A*): The 'do-while' statement is used less frequently than the while statement.
 - **Reason** (**R**): For most applications, it is more natural to test for continuation of a loop at the beginning rather than at the end of the loop.
- **25.** *Assertion* (*A*): The phase angle plot in Bode diagram is not affected by the variation in the gain of the system.
 - **Reason** (R): The variation in the gain of the system has no effect on the phase margin of the system.
- **26.** *Assertion* (*A*) : A monostable multivibrator can be used to alter the pulse width of a repetitive pulse train.
 - **Reason** (R): Monostable multivibrator has a single stable state.
- **27.** *Assertion* (*A*): Optical fibers have broader band width to conventional copper cable.
 - **Reason (R)**: The information carrying capacity of optical fibers is limited by dispersion.
- **28.** Assertion (A): XOR gate is not a universal gate.
 - **Reason** (R): It is not possible to realize any Boolean function using XOR gates only.
- **29.** Assertion (A): Semiconductors have negative temperature co-efficient of resistivity.
 - **Reason** (R): Insulators also have negative temperature co-efficient of resistivity.
- **30.** Assertion (A): Radio and Television receivers are generally of the super heterodyne type.
 - **Reason** (R): Wireless communication is possible by receiving signals through superheterodyne receivers.

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31.	The input resistance of a common emitter stage can be increased by :								
	(i)	Unbypassing emitter resistance							
	(ii)	Bootstrapping							
	(iii)	Biasing it at low quescent current	t						
	(iv)	Using compounded BJTs							
	The correct sequence in descending order of the effectiveness of these methods is :								
	(A)	(ii), (iv), (i), (iii)	(B)	(iv), (iii), (ii), (i)					
	(C)	(ii), (iv), (iii), (i)	(D)	(iv), (ii), (iii), (i)					
32.	Cons	sider the following semiconductor	diode	s:					
	(i)	Germanium diode							
	(ii)	Silicon diode							
	(iii)	Tunnel diode							
	(iv)	Schottky diode							
	The	correct increasing order of forward	l volta	ge drop of these diodes is:					
	(A)	(i), (iii), (iv), (ii)	(B)	(i), (ii), (iii) (iv)					
	(C)	(iii), (iv), (ii), (i)	(D)	(iii), (i), (iv), (ii)					
33.	The	various processor chips which ope	rate a	t different speeds are :					
	(i)	8086							
	(ii)	P-II							
	(iii)	P-III							
	(iv)	8085							
	The	correct sequence according to their	spee	d of operation in increasing order is	:				
	(A)	(i), (ii), (iii), (iv)	(B)	(iv), (i), (ii), (iii)					
	(C)	(ii), (iii), (iv), (i)	(D)	(iii), (iv), (i), (ii)					
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34.	Cons	sider	the fol	llowin	g communication	n syste	ems:					
	(i)	F.M.	Broad	dcast	systems							
	(ii)	A.M	. Broa	dcast	systems							
	(iii)	Microwave communication systems										
	(iv)	Opti	cal co	mmu	nication systems							
		The correct sequence of these systems from the point of view of increasing order of frequency is :										
	(A)	(i), (ii), (iii _,), (iv)		(B)	(iv), (ii), (i), (iii)					
	(C)	(ii),	(i), (iii _,), (iv)		(D)	(i), (iii), (iv), (ii)					
35.	The different types of memories are :											
	(i)	Mag	netic	tape								
	(ii)	Flop	py dis	sk								
	(iii)	RAN	Л									
	(iv)	Hard disk										
	The correct sequence of decreasing order of memory is:											
	(A)	(iv),	(iii), (i	i), (ii)		(B)	(i), (iv), (iii), (ii)					
	(C)	(i), (ii), (iv)), (iii)		(D)	(ii), (i), (iii), (iv)					
36.		Match <i>List-II</i> with <i>List-III</i> and select the correct answer using the codes given below the lists:										
		List	-I				List-II					
	(a)	Zene	er dio	de		(i)	Voltage stabilizer					
	(b)	SCR				(ii)	Pinch-off effect					
	(c)	FET				(iii)	Controlled rectifier					
	(d)	Tun	nel di	ode		(iv)	Microwave oscillator					
	Code	es:										
		(a)	(b)	(c)	(d)							
	(A)	<i>(i)</i>	(iii)	(ii)	(iv)							
	(B)	<i>(i)</i>	(ii)	(iii)	(iv)							
	(C)	(iii)	<i>(i)</i>	(iv)	(ii)							

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37.	Match <i>List-II</i> with <i>List-III</i> and select the correct answer using the codes given below the lists:								
		List-	·I					List-II	
	(a)	Thev	enin's	s theo	rem		(i)	Open circuit	
	(b)	Nort	on's t	heore	m		(ii)	Unity	
	(c)	Lapl	ace tra	ansfor	m of impulse fur	nction	(iii)	Passive circuit	
	(d)	Diod	le				(iv)	Closed circuit	
	Code	es :							
		(a)	<i>(b)</i>	(c)	(d)				
	(A)	(iv)	(ii)	<i>(i)</i>	(iii)				
	(B)	<i>(i)</i>	(iv)	(ii)	(iii)				
	(C)	(ii)	<i>(i)</i>	(iii)	(iv)				
	(D)	<i>(i)</i>	(ii)	(iii)	(iv)				
38.	Matc the li			th <i>Lis</i>	st-II and select th	ie cori	rect answer <i>List-II</i>	using the codes given below	
	(a)	Darl	ingtor	n amp	lifier	(i)	Low input	: impedance	
	(b)	Casc	ade a	mplifi	er	(ii)	Low outpo	ut impedance	
	(c)	Com	mon	gate a	mplifier	(iii)	Low input	capacitance but high R _{in}	
	(d)	Diffe	erentia	ıl amp	olifier	(iv)	Large Con	nmon Mode Rejection Ratio	
	Code	es:							
		(a)	<i>(b)</i>	(c)	(d)				
	(A)	<i>(i)</i>	(ii)	(iii)	(iv)				
	(B)	<i>(i)</i>	(ii)	(iv)	(iii)				
	(C)	(ii)	<i>(i)</i>	(iii)	(iv)				
	(D)	(ii)	(iii)	(i)	(iv)				

39.	Mato		<i>t-I</i> wi	ith <i>Lis</i>	st-II and select	the cor	rect answer using the codes given below
		List-	·I				List-II
	(a)	TTL				(i)	Maximum power consumption
	(b)	ECL				(ii)	Highest package density
	(c)	NMO	OS			(iii)	Least power consumption
	(d)	CMC	OS			(iv)	Saturated Logic
	Code	?s:					
		(a)	<i>(b)</i>	(c)	(d)		
	(A)	<i>(i)</i>	(iv)	(ii)	(iii)		
	(B)	(iv)	<i>(i)</i>	(ii)	(iii)		
	(C)	<i>(i)</i>	(iv)	(iii)	(ii)		
	(D)	(iv)	<i>(i)</i>	(iii)	(ii)		
40.	Mato the li		<i>t-I</i> wi	ith <i>Lis</i>	st-II and select	the cor	rect answer using the codes given below
		List-	·I				List-II
	(a)	Sign	flag			(i)	7th bit
	(b)	Zero	flag			(ii)	8th bit
	(c)	Parit	y flag	5		(iii)	1 bit
	(d)	Carr	y flag			(iv)	3rd bit
	Code	?s:					
		(a)	<i>(b)</i>	(c)	(d)		
	(A)	(ii)	<i>(i)</i>	(iv)	(iii)		
	(B)	<i>(i)</i>	(ii)	(iii)	(iv)		
	(C)	(iv)	(ii)	<i>(i)</i>	(iii)		
	(D)	(iii)	(iv)	<i>(i)</i>	(ii)		
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41.	Mato		<i>t-I</i> wi	ith <i>Lis</i>	st-II and select th	ne cori	rect aı	nswer using the codes given below
		List	-I					List-II
	(a)	Freq	uency	mod	ulation		(i)	Envelop detection
	(b)	Dou	ble sic	deban	d suppressed carr	rier	(ii)	Companding
	(c)	PCM	1				(iii)	Balanced Modulator
	(d)	Amp	olitude	e mod	ulation		(iv)	Pre-emphasis and de-emphasis
	Code	es:						
		(a)	<i>(b)</i>	(c)	(d)			
	(A)	<i>(i)</i>	(ii)	(iii)	(iv)			
	(B)	<i>(i)</i>	(ii)	(iv)	(iii)			
	(C)	(iv)	(iii)	<i>(i)</i>	(ii)			
	(D)	(iv)	(iii)	(ii)	<i>(i)</i>			
42.	Mato the l			th <i>Lis</i> ;	<i>t-II</i> and select the	corre	ct ans List-	wer by using the codes given below
	(a)		ex Kly	retron		(i)		power oscillator
	(b)		netro			(ii)		n power oscillator
	(c)	Klys		-		(iii)		power amplifier
	(d)		nel die	ode		(iv)		n power amplifier
	Code	es:				,	J	
		(a)	(b)	(c)	(d)			
	(A)	(ii)	(i)	(iii)	(iv)			
	(B)	<i>(i)</i>	(ii)	(iv)	(iii)			
	(C)	(iv)	(iii)	<i>(i)</i>	(ii)			
	(D)	(iii)	(iv)	(ii)	<i>(i)</i>			
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43.		atch <i>List-I</i> with <i>List-II</i> and select the correct answer using the codes given below e lists:									
		List	-I				List-II				
	(a)	LAS	ER			(i)	Spontaneous emission				
	(b)	Sola	r cell			(ii)	Stimulated emission				
	(c)	LED				(iii)	Delivers power to a load				
	(d)	Phot	o dio	de		(iv)	Detects the light incident upon it				
	Code	es:									
		(a)	<i>(b)</i>	(c)	(d)						
	(A)	<i>(i)</i>	(ii)	(iii)	(iv)						
	(B)	(ii)	(iii)	<i>(i)</i>	(iv)						
	(C)	(iii)	(iv)	<i>(i)</i>	(ii)						
	(D)	(iv)	<i>(i)</i>	(ii)	(iii)						
44.	Mato the l	ists :		ith <i>Li</i> s	st-II and select t	he cor	rect answer using the codes given below				
		List					List-II				
	(a)	LVD				(i)	Pressure				
	(b)		rdon t			(ii)	Temperature				
	(c)		n gau	O		(iii)	Displacement				
	(d)		misto	r		(iv)	Stress				
	Code		<i></i> ,		(4)						
	())	(a)	(b)	(c)	(d)						
	(A)	(i)	(iii)	(iv)	(ii)						
	(B)	(ii)	(i)	(iv)	(iii)						
	(C)	(iii)	(i)	(iv)	(ii)						
	(D)	(iv)	(iii)	<i>(i)</i>	(ii)						
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45. Match *List-II* with *List-III* and select the correct answer by using the codes given below the lists:

List-I List-II (a) Multiplexer (i) Sequential memory (b) De-multiplexer (ii) Converts decimal number to binary Shift-register (iii) Data selector (c) (d) Encoder (iv) Routes out many data output with single input Codes:

(a) (b) (c) (d)

(A) (iii) (iv) (i) (ii)

(B) (iv) (iii) (i) (ii)

(C) (iii) (iv) (ii) (i)

(D) (i) (ii) (iii) (iv)

Read the passage below and answer the questions that follow based on your understanding of the passage:

Many disturbances of an electrical nature produce noise in receivers, modifying the signal in an unwanted manner. In radio receivers, for example, noise may produce hiss in the loudspeaker output, whereas in television receivers 'snow' or coloured snow becomes superimposed in the picture. In pulse communication systems, noise may produce unwanted pulses or perhaps cancel out the wanted ones; it may cause serious errors in this faction. Noise is thus seen as limiting the range of systems, for a given transmitted power. It affects the sensitivity of receivers, by placing a limit on the weakest signals that can be amplified. It may sometimes even force a reduction in the bandwidth of a system as seen in radar.

There are numerous ways of classifying noise. It may be subdivided according to type, source, effect or relation to the receiver and noise created within the receiver itself. On the other hand, external noise is difficult to treat quantitatively. Radiotelescopes and International satellite earth stations are located in noise-free valleys. Internal noise is both more quantifiable and capable of being reduced by appropriate receiver design.

Atmospheric noise becomes less severe at frequencies above 30 MHz because of two separate factors. First the higher frequencies are limited to line-of-sight propagation less than 80 km. Second the nature of the mechanism generating this noise such that very little of it is created in the very high frequency range.

Why noise is considered as important parameter in telecommunication?

46.

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	(C)	Noise temperature	(D)	Noise figures						
	(A)	Input noise voltage	(B)	Equivalent noise resistance						
49.		of the following is not a useful quivers:	ıantity	for comparing the noise performance of						
	(C)	Impulse noise	(D)	Transit-time noise						
	(A)	Shot noise	(B)	Random noise						
48.	One is the		omes o	of great importance at high frequencies. It						
	(D)	the amplitude of the radar signal	decre	eases						
	(C)	C) the temperature of the radar decreases								
	(B)	the bandwidth of the radar decre	eases							
	(A)	the bandwidth of the radar incre	ases							
47.	The	effect of internal and external noise	e on r	adar is that :						
	(D)	noise may decrease the amplitude	e of th	ne pulse in communication system						
	(C)	noise may increase the frequency	of the	e receiver						
	(B)	noise interferes in introducing un	wante	ed signals at the receiver						
	(A)	noise of some type may not create unwanted signal								

50. Indicate the false statement :

- (A) HF mixers are generally noiser than HF amplifiers
- (B) Impulse noise voltage is independent of bandwidth
- (C) Thermal noise is independent of the frequency at which it is measured
- (D) Industrial noise is usually of the impulse type

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