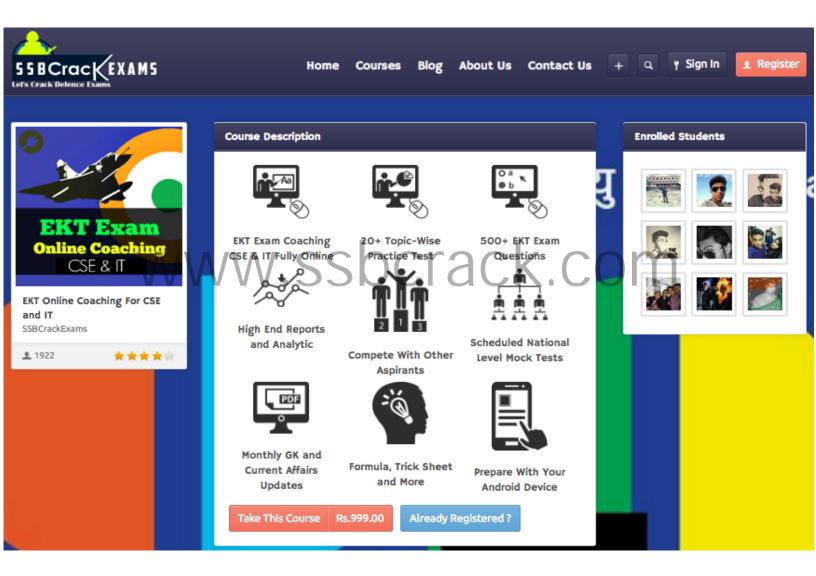
## **EKT + AFCAT Online Coaching** SSBCrackExams.com





## EKT 2 2016 Question Paper EEE/ECE







		ENGINE	RING KNOW	LEDG	E TEST (EK	(T)	
BOO	KI ET SEDIES 'G'	ELECIA	, mon	TIME ALLOTTED: 45 MINUTES			
INSTRUCTIONS FOR CANDIDATES  1. Total number of Questions 50. Each Question is of three marks.  2. One mark will be deducted for every wrong answer.  3. No marks will be deducted for un-attempted questions.							
Q1.	The value of Sin θ	+Cos θ wil	l be greatest v 45	when θ (c)	60	(d)	90
Q2.	Out of the following (a) Electrons (c) Alpha Partic		not emitted by	radioa (b) (d)	Electroma Neutrons	aginous	diations
Q3.	(b) to avoid frict so that nece & weight of (d) so that the	the train tional force essary cen the train train may n	between the tripetal force r	tracks may be	and wheels obtained fr site direction	s rom the ho	rizontal componen
Q4.	0 - 1 - 1 - 1	t a point is person after minimum d 5 km	heard by a pe	rson at	fter 5 secon seed of sour e two person	nd, while the nd is 300 rons? 0.20 km	ne same sound is m/s, what could be
Q5.	The most abundan	t rare gas i	s o c	here is	Me-K	.CO	m
Q6.	Quantizing noise of (a) PCM (c) FDM	ccurs in		(b) (d)	Time - div	vision - mu	ltiplexer
Q7.	Which of the follow (a) Biconical (c) Helical	ing antenn	as is best exit	(b) (d)	n a wavegu Horn Discone	ide	
Q8.	The peak transmitt maximum range w (a) 2 (c) 8				ncreased by 4 16	a factor o	f 16 the
Q9.	index is also doub  (a) FM	on system i oling, the sy	f modulating for stem is	requen	cy is double	d, the mod	ulation

(C) PM

(d) Both FM and AM

Q10. The bandwidth requirement of a telephone channel is

(a) 3 KHz

5 KHz (d) (c) 10 KHz

In class A operation of an amplifier the current flows through the active device for

(a) Whole of the input cycle

Half of the input cycle

More than half of the input cycle

More than three fourth of the input cycle

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15 KHz









13%

39 %

Q25.

(a)

(c)



(d)

130 %



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-			8001	KLET SERIES 'C'
Q26.		_ is the highest pri	iority interrupt	SEHIES .C.
	(a) INTR	(b)	RST5.5	
	(c) RST	(d)	Trap	
Q27.	Crossover distortion occurs in _	Amplifiers		
	(a) Push-pull	(b)	Class-A	
	(c) Class-B	(d)	Class-AB	
		(0)		
Q28.	Voltmeter is used in		D	
	(a) Series with the circuit	(6)	Parallel to the circuit none	
	(c) Either of the two combin			
Q29.	One Coulomb passing a point in	one second is or	ne	
QZ5.	(a) Ohm	(b)	Charge	
	(e) Ampere	(d)	Volt	
	<b>y</b> '			
Q30.	Which part of an atom has no el	ectrical charge?		
	(a) Electron	(b)	Neutron	
	(c) Proton	(d)	Positron	
	# Comment in a sirguit is O Ampor	a it is likely that		
Q31.	If Current in a circuit is 0 Amper		Circuit is closed	
	(a) Circuit is open	(b)	Voltage is too high	
	(c) Resistance is too low	(d)	voltage is too night	
Q32.	Voltage source which converts	chemical energy to	electrical energy is ca	illed
	(a) Solar cell	(b)	Electrical power supp	ply
	(c) Electrical generator	(0)	Battery	
Q33.			Constant V avatabase	filter
	(a) Composite filter	(b)	Constant K prototype	tilter
	Sch Crystal filter	00 r (d)	Ceramic filters	
Q34.	The most common modulation s	system used for tel	legraphy is:	
	(a) FSK	(b)	Two tone modulation	
	(c) PCM	(d)	Single tone modulati	
Q35.	Logic gates required to built up	a half adder circuit	t are,	
	(a) Ex-OR gate and NOR ga		Ex-OR gate and OR	
	(c) Ex-OR gate and AND ga	ate (d)	Ex-NOR gate and N	AND gate
026	The breakdown that occurs in re	verse bias conditi	ions in a narrow junction	n diode is known
Q36.		Verse bias conditi	ons in a narrow jurious	
	as, Zener breakdown	(b)	The avalanche break	down
		(d)	Reverse breakdowns	
Q37.	In case of satellite communicati	on		
	(a) Uplink frequency> Down			
	(b) Downlink frequency>Up	link frequency		
	(c) Downlink frequency=Up	link frequency		
	(d) None of the above			
No.		and to digital dur	ing conversion process	produces
Q38.	Change in value of an analog si	gnai to digital, dui	Nyquist error	
	(a) Quantisation error	(b)		
	(c) Resolution error	(d)	Sampling error	The second
000	If a signal is passing through a	ogic gate le inhih	ited by sending a low i	nto one the incui
133	ir a signal is passing through a	Logic gate is mine	ing of refine the way	
	and the output is HIGH, the gate		NAME AND	AND
	(a) OR (b) N	AND (e)	11041 140	

40			17/19/2		POOVIE ! SEHIES .C.
40.	The Lo (a) (c)	gic gate that will have HIGH or "1" at NOT NOR	its outp (b) (d)	OR AND	n one of its inputs is high is
41.	(a) (b) (c) (d)	uency modulation Frequency of the carrier remains con Carrier frequency varies in accordant Carrier frequency varies in accordant None of the above	nce with	the mo	odulating signal amplitude odulated signal frequency
Q42.	Close (a) (c)	loop control system is better than the Highest levels of amplification Robust design features	(b) (d)	Feed	item due to eack control to manufacture
Q43.	(a) (c)	Increase the maximum range Affect range ambiguity	(b) (d)	Decr	ease the maximum range ease the efficiency of radar
244.	The go (a) (c)	eneral characteristic of semi conduction Linear device Parabolic characteristic devices	tors is (b) (d)	Nor	linear device ne of the above.
45.	(a)	nction of Schmitt trigger is To divide frequency To shape a wave	(b)	To	control frequency give out a saw tooth wave
46.	The dis (a) (b) (c)	its efficiency is low output power is 1000. It can be used at only one operat None of the above	ing		.com
47.	Use of (a) (b) (c)	FRADAR for Military and civil application of the velocity of moving targe Detection of far off object in air Surveillance of aircrafts/UAV All of the above			
048.	(a) (b) (c) (d)	appears to move from east to west All stars move from east to west The earth rotates from west to e The earth rotates from east to w The background of the stars mo	east		st to east
49. 250.	Them	Platinum Iron In layer of the atmosphere is used Troposphere Mesosphere	DOMEST NO.	(b) (d) ost for (b) (d)	silver gold communication Ionosphere Troposphere
ISSEE.					



