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⑪D	elete Selected (	Questions		<b>→</b> Assign S	Selected Quest	ions to eExam		
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	Question Type 👢	Question 11	A 11	в ↓↑	c 11	D 11	Answer ↓↑	Remark
	FBQ	Heat transfer from components is	Directly proportional					eExam
	FBQ	_to surface area  A logic gate is an electronic  which makes the logical	Device					eExam
	FBQ	Two of the most important theorems of Boolean algebra were contributed by a great mathematician named	DEMORGAN					еЕхат
	FBQ	To construct an accurate digital clock, a very highly controlled basic is required	Clock frequency					eExam
	FBQ	A CLEAR input can also be called	Reset input					eExam
	FBQ	To convert a  to octal, we simply group the bits into groups of threes starting from the right	Binary number					eExam
	FBQ	Sequential circuits are circuits whose outputs are on not only the current inputs, but also on all of the past inputs	Dependent					еЕхат
	FBQ	The SR latch is to its inputs all the time	Sensitive					eExam

FBQ	The digital system consists of two types of circuits, namely; Combinational circuits and	Sequential circuits		eExam
FBQ	The transformer is responsible for the voltage level of incoming ac mains supply	stepping down		eExam
FBQ	The is the ratio between the output voltage and the input voltage	voltage gain		eExam
FBQ	Three Terminal Adjustable Regulators rely on to set the output voltage	eternal resistors		eExam
FBQ	is implemented by sensing the elements junction temperature and reducing the powerdissipation until the temperature drops to a tolerable level	Thermal Shut down		eExam
FBQ	The minimum current as set by the overload protection is	320mA		eExam
FBQ	The purpose of the  is to prevent the current through the series pass transistor from eceeding a predetermined value.	Overload protection		eExam
FBQ	is to boost the output current capabilities of the error amplifier.	The Series Pass element		eExam

FBQ	The aim of the error amplifier is to drive the pass transistor in such away that if the Vo is increasing, the transistor will reduce its amplification and if Vo is decreasing, the transistor will increase its amplification such that Vo is kept	constant		еЕхат
FBQ	takes a scaled version of the output and compares it with the reference voltage and adjusts Vo via the series pass transistor.	The Error amplifier		eExam
FBQ	provides a scaled version of the input which is stabilized by the Zener diode	The Voltage reference		eExam
FBQ	control or maintain a constant dc voltage output by continuously adjusting the voltage drop across a power transistorconnected in series between the unregulated input and the load	Series regulators		eExam
FBQ	is defined as the rate of change of output voltage with output current	Output resistance		eExam
FBQ	The full wave (centre tapped and bridge circuits) have a higher output voltage with	reduced ripple		eExam
FBQ	The the ripple factor the better the filter	Lower		еЕхат
FBQ	is an indication of effectiveness of the filter and it isdefined as rms ripple voltage	Ripple factor		eExam

FBQ	The easiest way to smooth a circuit is by adding a in parallel to the resistive load	capacitor	еЕхат
FBQ	is the most frequently used rectifier circuit for electronic DC power supplies	Full Wave Bridge Rectifier	еЕхат
FBQ	on the other hand reads the effective or rms value of the current passing through it.	AC meter	еЕхат
FBQ	The  converts the sinusoidal wave form with an average value of zero to a unidirectional wave form with a non zero average waveform.	half wave rectifier	еЕхат
FBQ	steps up the voltage from the ac mains. Its output voltage is higher than the input voltage level.	step-up transformer	еЕхат
FBQ	DC power supply has a terminal voltage which remains constant regardless of the amount of current drawn from it.	Regulated power supply	еЕхат
FBQ	The DC power supply is a circuit design of provide DC power supply mostly for the powering of	portable devices	еЕхат
FBQ	The integrator is a  filter and produces more output for low frequency signals	low pass	еЕхат
FBQ	The Op amp integrator produces an output that is to the area under the curve of the input voltage	proportional	еЕхат

FBQ	The of the operational amplifier provides an output voltageproportional to the algebraic sum of the inputs, each multiplied by aconstant gain factor	adder circuit	eExam
FBQ	The is a direct coupled amplifier capable of amplifying signals from DC up to a few MHz	operational amplifier	eExam
FBQ	There are basically  of feedback amplifier circuit topologies depending on how the signals are added at the input.	4 types	eExam
FBQ	arrangement, the feedback voltage is in the same phase as the input voltage and it increases the input voltage amplitude.	positive feedback	eExam
FBQ	is the ratio between the output voltage and the inputvoltage	voltage gain	еЕхат
FBQ	of the circuit is the parallel combination of R1 ,R2 and Rin(base).	input impedance	eExam
FBQ	Electronic amplifying devices such as BJT and FET have three terminals E,B, and S,G,D	C	eExam
FBQ	The collector current and the base currents flow through the	collector resistor	eExam

FBQ	The determination of the q point is through the process of	biasing	eExam
FBQ	Biasing can be defined as the setting up of the DC voltages and current in an	electronic circuit	eExam
FBQ	The loadlines enables the of the transistor characteristics	visualization	eExam
FBQ	In the  configuration the input terminal is the basewhile the output terminal is the emitter and the collector is common to both the input and the output	common collector	eExam
FBQ	In the  Configuration the input terminal is the base while the output terminal is the collector and the emitter is common to both the input and the output	common emitter	eExam
FBQ	is formed by joining three sections of semiconductor material, each with a different doping concentration	BJT	eExam
FBQ	A transistor is a three-terminal device that can be used for amplification and switching	semiconductor	eExam
FBQ	Karnaugh maps are a graphical way of simplifying a and thus simplifying the resulting	Boolean epression	eExam

FBQ	The NOR gate is also referred to as a because it can be used to simulate OR, AND and NOT gate functions	universal gate	eExam
FBQ	The gate is a combination of the NOT and the OR gate	NOR	еЕхат
FBQ	The gate is a logic gate which will give a high output if and only if all its inputs are high. It symbolizes logical multiplication	AND	eExam
FBQ	gate is a gate which produces a high output of any or both (all) if its inputs are high	DR	еЕхат
FBQ	is an electronic circuit which makes logic decisions	ogic gate	eExam
FBQ	allows gates to be converted to others by simply inverting the inputs of the selected gate	DeMorgan's Theorem	eExam
FBQ	is the basic mathematics for the study of logic design	Boolean algebra	еЕхат
FBQ	Cooling fans are also used if the heat sink gets too hot, this is called	forced convection	eExam
FBQ	Heat sinks are made in many and sizes	Shapes	eExam

FBQ	is a metal structure usually with fins that is bonded, clipped or clamped to the device package to facilitate heat flow from case toambient	heat sink					eEx	xam
FBQ	the aim of the heat sink is to increase the  area of the component thereby increasing the rate of heat dissipation of the component	total surface					eEx	xam
FBQ	is a metallic material attached to an integrated circuit chip or a high power dissipating transistor	heat sink					еEx	xam
FBQ	types of regulators rely on eternal resistors to set the output voltage	Three Terminal Adjustable Regulators					(eE)	xam
FBQ	The SOA is defined as the area on the V and I curve within which the device can be operated without the risk of	failure or degradation.					eE)	xam
FBQ	SOA stands for	Safe Operating Area					eЕ	xam
MCQ	Which of the following is not a Boolean identity	A + 0 =0	A X A = A	A + A = A	A + 1 = 1	В	еЕх	xam
MCQ	The main advantage of CMOS digital ICs over TTL is found in their	Low power consumption	Cheaper price rate	Availability in the market	Compatibility with several boards	А	eEx	xam
MCQ	Application of op amps include all the following except	Addition	Conversion	Subtraction	Integration	В	eEx	xam
MCQ	Circuit protection schemes include the following except	Thermal shutdown	Safe area of operation	Overload protection	Underload protection	D	eEx	xam
MCQ	Which of the following is not a valid parameter value of the ideal Op Amp?	Input impedance = infinity	Output impedance = Zero	Gain = 200000	Bandwidth = infinity	С	eЕx	xam

MCQ	Which of these configurations is not a FET configuration?	common source	common drain	common gate	common base	D	eExam
MCQ	Which logic gate might be called "all or nothing gate"?.	OR	AND	NOR	NAND	В	eExam
MCQ	The maximum possible efficiency of the halfwave rectifier is	0.406	0.506	0.7	0.3	A	eExam
MCQ	The following are the various advantages of the Negative feedback except	Higher Fidelity	Reduced Noise	High stabilized Gain	Reduced Gain	D	eExam
MCQ	All of these stages are involved in the conversion of AC to a DC power supply except	Transformer	Rectifier	Filter	Thyristor	D	еЕхат
MCQ	The maximum allowable chip temperature is known as thetemperature.	maximum chip	integrated circuit	maximum junction	circuit	С	eExam
MCQ	The logic gate which will give a high output if and only if all its inputs are low is gate.	AND	NOT	NOR	NAND	D	eExam
MCQ	In The three configurations of the bipolar junction transistor, the configuration with the lowest gain is common	Base	Emitter	Drain	None of the above	A	eExam
MCQ	In the common emitter configuration the output is gotten from the	Base	Emitter	Collector	supply	С	eExam
MCQ	Which of the following is true about BJT transistors?	BJTs are current controlled devices	BJTs are frequency controlled devices	BJTs are power controlled devices	BJTs are voltage controlled devices	A	eExam
MCQ	In the half wave rectifier, the output ripple frequency is	Equal to the input frequency	Zero	Twice the input frequency	Half the input frequency	С	eExam
MCQ	Which logic gate will produce an output of 1 whenever the inputs are different and/or zero?	NOR	Exclusive- OR	OR	Exclusive- NOR	В	еЕхат
MCQ	can be described as the change in voltage from No-load to full- load condition	Transformer	Rectifier	Voltage Divider	Voltage Regulation	D	eExam

MCQ	Heat transfer from components isto surface area	Directly proportional	Inversely proportional	Equal	Not related	A	eExam
MCQ	Application of op amps include all of the following except	Adder	Subtractor	Integration	Lighting	D	eExam
MCQ	Circuit protection schemes include the following except	Underload protection	Overload protection	Thermal shutdown	Safe area of operation	A	eExam
MCQ	Which of the following is not a valid parameter value of the ideal Op Amp?	Input impedance = infinity	Gain = 200000	Output impedance = Zero	Bandwidth = infinity	В	eExam
MCQ	The maximum allowable chip temperature is known as the temperature.	maximum chip	integrated circuit	maximum junction	circuit	С	eExam
MCQ	The following are types of laws of Boolean except	Commutative	Associative	Distributive	None of the above	D	еЕхат
MCQ	The logic gate which will give a high output if and only if all its inputs are low is gate.	AND	NOT	NOR	NAND	D	eExam
MCQ	In The three configurations of the bipolar junction transistor, the configuration with the lowest gain is common	Emitter	Drain	Base	None of the above	С	eExam
MCQ	In the common emitter configuration the output is gotten from the	base	emitter	supply	collector	D	еЕхат
MCQ	Which of the following is true about BJT transistors?	BJTs are current controlled devices	BJTs are voltage controlled devices	BJTs are power controlled devices	BJTs are frequency controlled devices	А	eExam
MCQ	In the half wave rectifier, the output ripple frequency is	Equal to the input frequency	Zero	Twice the input frequency	Half the input frequency	С	eExam
MCQ	In the voltage divider bias, the DC bias Voltage and Current are	Dependent on temperature	Independent on temperature	Constant	Negligible	A	eExam
MCQ	Using a truth table, the expression A + A'B can be shown to be	A + B	АхВ	A + A	A' + B	A	еЕхат
MCQ	The positive feedback current is used mainly in	capacitors	oscillators	oscilloscopes	transformers	В	eExam

MCQ	The OP AMP differentiator is basically a pass filter	low	medium	high	one	С	eExam
MCQ	A major disadvantage of the pass transistor regulator is that they are inefficient	parallel	linear	series,	one	С	eExam
MCQ	The OR gate have a Boolean mathematical equivalence of	Multiplication	Inversion	Negation	Addition	D	eExam
MCQ	An amplifier can perform operations, such as addition, subtraction, differentiation or integration	efficient	operational	optimizing	consistent	В	eExam
MCQ	In, the transistor operates somewhere between saturation and cut-off state.	Step-down Regulator	Step-up Regulator	Linear Regulator	Inverting Regulator	С	eExam
MCQ	LM317 is an example of a terminal adjustable regulator	two	three	four	six	В	eExam
MCQ	The following are major applications of Zener diode except	Voltage Regulation	Voltage Limiter	Meter Protection	Voltage Converter	D	eExam
MCQ	In the Series Derived Shunt-Fed Feedback Topology the input is connected in	series	parallel	serial	linear	В	eExam
MCQ	The ratio of the rms value of AC components to the DC value of load voltage is referred to as the	Voltage Regulation	Form Factor	Ripple Factor	Rectification Factor	D	еЕхат
MCQ	The transistor will operate as a switch when it is biased in the	Saturation Region	Cut-off region	Forward Region	Reverse Region	A	eExam
MCQ	In negative feedback, the feedback voltage is degrees out of phase with the input voltage	270	180	45	90	В	eExam
MCQ	The conversion of rectification is given by the ratio of the output DC power to the total amount of input power supplied to the circuit	Output	Reliability	Efficiency	Capacity	С	eExam

MCQ	The first stage involved in the process of rectification is the	Transformer stage	Rectifying stage	Filtering Stage	Voltage Dividing Stage	A	eExam
MCQ	The major difference between the bridge rectifier and centre tap rectifier is that the bridge requires 4 diodes while the full wave centre tapped rectifier requires a centre tapped	Repeater	Transistor	Transformer	Amplifier	С	eExam
MCQ	Before the DC analysis is performed, all capacitors are regarded as open circuit	given	perform	order	coupling	D	eExam
MCQ	We first write the collector circuit equation by applying	VCC	RCIC	REIE	KVL	D	eExam
MCQ	The purpose of analysis is to determine thespecifications of the circuit	ground	different	gain	source	В	eExam
MCQ	Biasing can be defined as the setting up of the DC voltages and in an electronic circuit	current	switch	amplifier	operation	A	eExam
MCQ	The curves are at different base currents.	operating	load	generated	point	С	eExam
MCQ	The load line is determined by identifying the endpoints of the line	Two	Four	Three	Six	A	eExam
MCQ	The gain for the CB configuration is always less than, so the CB configuration is not used for current amplification	4	5	2	1	D	eExam
MCQ	It is also important to observe that the base is muchthan the emitter section of the transistor	wider	narrower	biger	smaller	В	eExam
MCQ	Typical values of β range from	20 to 200	25 to 200	30 to 300	20 to 300	А	eExam
MCQ	A transistor is a three- terminal semiconductor device that can be used for amplification and	magnifying	transferring	switching	controlling	С	еЕхат

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