- 101. The power input to a 6 pole, 3 phase, 50 Hz induction motor is 42 Kw, the speed is 970 rpm. The stator losses are 2kw. The rotor copper losses per phase are 1) 1200w 2) 800w 4) 200w 3) 400w
- 102.A 40 KVA, 3300/240V, 50 Hz single phase transformer has 660 turns on the primary. The number of turns on Secondary are 1) 48 2) 120 3) 240 4) 480
- 103.A 4 pole long shunt compound generator supplies a load of 100 A at a terminal Voltage of 400v. the generated end of the machine if the resistance of armature is 0.02 Ω , the resistance of series field is 0.04Ω and shunt field is 200Ω is 4) 402.04v 2) 406v 3) 406.12v 1) 400v

104. The current through the 2.5Ω resistor shown in the figure below is

1) 4A

- 2) 2A
- 3)3A
- 4)1A

105. The equivalent resistance between X and Y terminals in the circuit is

- 1) 20
- 2) 1Ω

3)1.8Ω

- 4) 3.54Ω
- 106. In series R.L.C circuit, R=100 Ω , X_L = 300 Ω , Xc=200 Ω the phase angle ϕ of the cut is 1) 60° 2) 90° 3) 45° $4) 30^{\circ}$ degrees 107. An RLC cut has a resonant frequency of 160khz and Q factor of 100. Its band width is
- 3) 180khz 1) 1.6 khz 2) 160khz 4) 100hz
- 108. In an RLC circuit V(t)= 20 sin (314(t)+ $5\pi/6$) and i(t)= 10sin (314t + $2\pi/3$), the P.F. of the circuit 3)0.866 lag 1) 0.5 lead 2) 0.5 lag 4)0.866 lead is

109. For an A.C ckt, the Voltage and current values are as follows. $V(t)=100 \sqrt{2} \sin (314 t + 120^{\circ})$ $i(t) = 5sin (314t+60^{0})$ find the power consumed by the load

- 2) $125/\sqrt{2}$ watts
- 4) $20\sqrt{2}$ watts 1) $125\sqrt{2}$ watts 3) $250\sqrt{2}$ watts 110. Three resistance are connected in delta. Their values are 20Ω , 30Ω and 50Ω . The resistance elements in the equivalent star network are
 - 1) 18Ω , 72Ω , 36Ω 2) 10 Ω , 5 Ω , 1 Ω 3) 10Ω , 6Ω , 15Ω 4)6 Ω , 12 Ω , 18 Ω
- 111. The Equivalent resistance between the terminals X and Y in the ckt shown below is $R_1=6\Omega$; $R_2=1\Omega$

1) 4/3Ω

2) 6Ω

3)3Ω

- 4) 3/40
- 112. For the Ckt shown the total induction b/n the terminals T1 and T2 will be 1) 400mH
 - 2) 0 mH
 - 3)200mH
 - 4) 100mH
- 113. The turn off time of SCR will be of the order of
- 1) 1μ sec 2) 2 milli seconds 3) 50 μ secs 4) 1 sec 114. When the SCR is switched on the resulting anode current should be:
 - 1) greater than holding current 2) greater than latching current
 - 4) lower than latching current
- 3) greater than zero 115. DC Motor braking is possible with
 - 1) half controlled bridge rectifier 2) full controlled bridge rectifier with free wheeling diode
 - 3) full controlled bridge rectifier 4) half controlled bridge rectifier with free wheeling diode
- 116. Transistors are preferred in inverters because of
 - 1) high frequency operation
- 2) non connection circuits 4) all of the above
- 3) high efficiency 117. In a 3-phase six pulse rectifier, the ripple frequency is

 - 2) times the supply frequency
 - 3) six times the supply frequency

1) 3 times the supply frequency

4) none of these

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$\begin{array}{cccccccccccccccccccccccccccccccccccc$
119. SCR uses 1) No gate 2) two gates 3) one gate on the p-layer near to cathode 4) One gate on the n-layer next to anode
120. In a three phase half wave rectifier, each diode conducts for 1) 180° 2) 120° 3) 60° 4) 360°
121. The output Voltage an inverter is controlled by
1) PWM 2) regulation of supply
3) reversal inverters in buck boost mode 4) all of them
122. In DC Motor speed control, faster response is from
1) field control 2) armature control 3) breaking control 4)all of them
123. In a thyristor di/dt protection is achieved through the use of
1) R is series with thyristor 2) L is series with thryistor
3) C in series with thyristor 4) all of the above
124. It 'L' is the angle and Vm sin wt is the input to a half wave phase controlled rectifier then Vo=
1) $\frac{\mathbf{V}_{\mathrm{m}}}{\pi}(1+\cos\alpha)$ 2) $\frac{2\mathbf{V}_{\mathrm{m}}}{\pi}(1+\cos\alpha)$ 3) $\frac{\mathbf{V}_{\mathrm{m}}}{2\pi}(1+\cos\alpha)$ 4) $\frac{2\mathbf{V}_{\mathrm{m}}}{\pi}\cos\alpha$
125. A dual converter is a device that
1) converts AC to DC 2) converts DC to AC
3) converts AC from one frequency level to another frequency levels 4) none
126. A free wheeling diode is connected across an inductive load is
1) to restore conduction angle on phase 2) to avoid negative reversal voltage drop
3) to reduce the P.V 4) all the above
127. The diac will have 1) identical forward and reverse characteristics
2) forward break down voltage is less then reverse break down voltage
3) reverse break down voltage is less then forward break down voltage
4) very ingli forward break down voltage 128. To uso photo diodo as a transducor
1) reverse hias the n-n junction 2) forward hias the n-n junction
3) increase the temperature of the junction 4) none of these
129. Proximity switch is
1) input device 2) output device 3) control device 4) none of these
130. The method of rotor voltage control of an induction motor is
1) inefficient 2) more efficient than static kramar drive
3) more efficient then static sher bius drive 4) none
131. Natural commutations can be used in
1) DC circuits only 2) AC circuits only 3) both AC and DC circuits 4) none 129. The number of loads in a DIAC are 1) 2 2) 2 2) 4 4) 6
1) DC circuits only 2) AC circuits only 3) both AC and DC circuits 4) none 132. The number of leads in a DIAC are 1) 2 2) 3 3) 4 4) 6 133. The duty cycle of a stop down chopper is
1) DC circuits only 2) AC circuits only 3) both AC and DC circuits 4) none 132. The number of leads in a DIAC are 1) 2 2) 3 3) 4 4) 6 133. The duty cycle of a stop down chopper is T T T T T T T T T T T T T T T
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1) DC circuits only 2) AC circuits only 3) both AC and DC circuits 4 hone 132. The number of leads in a DIAC are 1) 2 2) 3 3) 4 4) 6 133. The duty cycle of a stop down chopper is 1) $\frac{T_{on}}{T_{on} + T_{off}}$ 2) $\frac{T_{off}}{T_{on} + T_{off}}$ 3) $\frac{T_{on} + T_{off}}{T_{on}}$ 4) $\frac{T_{on} + T_{off}}{T_{off}}$ 134. A silicon controlled switch has 1) 2 leads 2) 3 leads 3) 4 leads 4) 5 leads 135. By connecting a diode across SCR in anti parallel 1) increases turn on time 2) decrease turn on time 3) increase turn off time 4) decreases turn off time 136

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145.	The phase difference between output and $\ensuremath{\mathrm{I/P}}$ of contrast of the phase difference between output and $\ensuremath{\mathrm{I/P}}$	ommon sou	urce configurat	ion is			
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2	4) none				
146.	In class C amplifier the collector current will flow	for					
1 4 7	1) less than 180° 2) 180° 3) betwee	en 360º	4) 360°				
147.	The maximum efficiency of a half wave rectifier is $1 \times 22, 220$	8	4) CO0/				
1/8	1) 55.55% 2) 40.6% 5) 50% The ripple factor of a full wave rectifier is	2	4) 68%				
140.	1) the same as that of half wave rectifier 2) high	r than tha	t of half wave	rectifier			
	3) less than half the rinnle factor of a half wave re	ctifier					
	4) more than half the ripple factor of a half wave	rectifier					
149.	Fermi energy is the amount of energy Which of the following						
	1) a valence electron can have at room temperature						
	2) must be gives to an electron to move it to conduction band						
	3) must be given to a hole to move if to valence band 4) a hole can have at room temperatur						
150.	0. Zener diode is invariably used with						
	1) forward bias 2) reverse bias	3) either	1 and 2 above	4) zero bias			
151.	A double beam oscilloscope has	double beam oscilloscope has					
	1) two screens 2) two electron guns	3) two di	fferent phosph	or coatings			
159	4) one wave form divided into two parts	on of					
192.	1) photo voltaic effect 2) photo conductive effect	$\frac{10 \text{ nu}}{3} \text{ socond}$	lary omission	1) thermonile effect			
153	Ability to amplify weak signal is	J) Second	ary emission	4) thermophe effect			
100.	1) selectivity 2) responsibility	3) sensit	ivity	4) fidelity			
154.	Improper biasing of a transistor circuit leas to	0) 5011510		i) indentity			
	1) distortion in o/p signal 2) excessive heat	production	at collector te	rminal			
	3) faulty location of load line 4) heavy loading of	of emitter t	terminal				
155.	Negative feedback in an amplifier						
	1) increases the noise 2) decreases the B.W	3) decrea	uses the harmo	nic distortion			
	4) increases the harmonic distortion						
156.	The circuit shown is						
	1) clamper (adds $+V_m$ level)						
	2) clamper (adds $- V_m$ level) 2) clamper (add 2 V level)						
	$\frac{3}{2} \frac{1}{2} \frac{1}$						
157	To improve voltage amplifier characteristics feed	oack amp	is used				
157.	To improve voltage amplifier characteristics feed 1) voltage shunt 2) current series	back amp, 3) currer	is used at shunt	4) voltage series			
157. 158.	To improve voltage amplifier characteristics feed 1) voltage shunt 2) current series A low pass RC circuit acts as integrator under the	back amp, 3) curren e following	is used at shunt condition	4) voltage series			
157. 158.	To improve voltage amplifier characteristics feed1) voltage shunt2) current seriesA low pass RC circuit acts as integrator under the1) RC < <t< td="">2) RC =T</t<>	oack amp, 3) curren e following 3) RC >>	is used at shunt condition T	4) voltage series4) none			
157. 158. 159.	To improve voltage amplifier characteristics feed 1) voltage shunt 2) current series A low pass RC circuit acts as integrator under the 1) RC < <t 2)="" rc="T<br">555 timer can be operated in</t>	oack amp, 3) currer e following 3) RC >>	is used at shunt condition T	4) voltage series4) none			
157. 158. 159.	To improve voltage amplifier characteristics feed1) voltage shunt2) current seriesA low pass RC circuit acts as integrator under the1) RC < <t< td="">2) RC =T555 timer can be operated in1) astable2) monostable</t<>	oack amp, 3) curren e following 3) RC >> 3) bistab	is used at shunt condition T le	4) voltage series4) none4) either 1 or 2			
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 157. 158. 159. 160. 161. 162. 	To improve voltage amplifier characteristics feed 1) voltage shunt 2) current series A low pass RC circuit acts as integrator under the 1) RC < <t< td=""> 2) RC =T 555 timer can be operated in 1) astable 2) monostable During pass band the characteristic impedance of 1) purely real 2) imaginary LED is operated in 1) forward 1) forward 2) reverse The minimum value of h_{fe} required by the transis 1) 29 2) 3</t<>	 back amp, 3) currente 6 following 3) RC >> 3) bistab 3) bistab 5 a filter is 3) completion 3) either tor in RC p 3) 44 5 	is used at shunt condition T le ex 1 or 2 phase shift osc	 4) voltage series 4) none 4) either 1 or 2 4) none 4) none 4) none illator is 4) none 			
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170.	What is the length of PC of 8085 µp							
	1) 8 bits 2) 4 bits	3) 16 bits	4) 32 bits					
171.	What is the addressing mode used in instruction I	LDA 0345H						
	1) direct 2) indirect	3) indiered	4) immediate					
172.	In interrupt service request have been received free	om all of the following ir	nterrupts, then					
	which one will be serviced lost (1) RST $(6.5 \ 2)$	RST 5.5 3) RST 7.5	4) TRAP					
173.	Which of the following interrupt is un maskable in	nterrupts						
1 7 4	1) RST 5.5 2) RST 7.5	3) RST 7.5	4) TRAP					
174.	Number of bits needed to address $64K$ memory loc	cation is	4) 0.4					
175	1) 4 2) 8 No of going and margine monitor in 2025 and	3) 16	4) Z4					
179.	No. of general purpose register in 8085 are $1 2$	2) 0	1) 5					
176	The RST5 interrupt have vector location	5) 8	4) 0					
170.	$1) 002C \qquad 2) 0028$	3) 0024	4) 002D					
177	The instructions LDA and STA is case of 8085 are	0) 0024	4) 002D					
1	1) 1 byte 2) 2 byte	3) 3 byte	4) none					
178.	DAA instruction will effects only after which instr	ruction	,					
	1) SUB 2) ADD	3) CMA	4) STC					
179.	Decimal 238 in hexadecimal is 1) 5C 2) C5 3) EF	4) EE					
180.	Multiplexer has inputs and output	s						
	1) one, one 2) one, many	3) many, one	4) many, many					
181.	A hall effect transducer is used for measurement of	of a magnetic field of 1.5	wb/m ² with a					
	copper transducer for which the hall effect coeffici	ent is -52×10^{-12} V-m/A	wb-m ² . The					
	thickness of the element is 2mm and the current p	passing is 5A find the vo	ltage generated					
	1) $-0.195 \mu V$ 2) $-0.195 m V$	3) -390 mV	4) -390×10^{-9} V					
182.	The resistance of a thermometer is 5Ω at 30° C and	$d 6.5\Omega$ at 60°C using line	ear approximation,					
	the value of resistance temperature coefficient at	45°C	() 0 01/0 0					
100	$\begin{array}{c} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	3) 0.0085/°C	4) 0.01/°C					
183.	A pressure of 256 KN/m ² acting on a diaphragm p	roduces a reflection of 0.	.2 mm at the centre					
	and the thickness is 1/ of the conline one	if the diameter is 2 time	es the earlier one					
	1) 2 KN/m^2 2) 1 28 KN/m^2	3) 64 KN/m^2	(4) 0.5 KN/m ²					
18/	A pressure applied to a bellows element produces	a linear displacement of	2 2mm Sunnese the					
104.	number of bellows elements is made 3 times and t	hickness of the hellows	element is halved					
	what would be the displacement of the element for	or the same applied pres	sure					
	1) 24 mm 2) 12 mm	3) 48 mm	4) 3 mm					
185.	In a thermopile element, heat energy transformed	l to the hot junction is co	onverted into					
	electrical energy by	0						
	1) Johnson's effect 2) Seebeck effect	3) Hall effect	4) Peltier effect					
186.	Calculate the ratio of vertical to horizontal freque	ncies for an oscilloscope	which displays the					
	following lissajious figure							
	1) 1 : 2							
	2) 2 : 3							
	3) 3 : 4							
105	4) 1 : 8							
187.	One of the following can acts as an inverse transd	ucer						
	1) electrical resistance potentiometer	$\begin{array}{c} 2) \text{ L.V.D.T} \\ 4) minor shows a state stat$	_					
188	b) capacitive transducer	4) piezo electric crystal	s hielznoss are halved					
100.	the natural frequency is 112 KHz 222 KHz	0 KH_{7} 3) 60 KH ₇	Λ 190 KH ₇					
189	A Mcleod gauge of $V_0=200$ cm ³ and capillary cross	sectional area $a = 0.1$ c	n^2 indicates 1 cm of					
100.	mercury. Express the pressure							
	1) 0.5×10^{-3} cm of Hz 2) 0.2×10^{-3} cm of Hz	3) 0.1×10 ⁻³ cm of Hz	4) 0.8×10^{-3} cm of Hz					
190.	A strip chart recorder is 1) an active transdu	ucer 2) an inverse trai	nsducer					
	3) an output transducer	4) 2 and 3						
191.	Which of the following instruments is a rate meter	r						
	1) venturimeter 2) hot wire anemometer	3) disk meter	4) current meter					
192.	The hot wire anemometer is used to measure							
	1) pressure in gases 2) liquid discharges 3) g	as velocities 4) wind v	elocities at air parts					
193.	Process degree of freedom is defined by the follow	ing relation						
	1) $n=n_v - n_e$ 2) $n = n_v + n_e$	3) n = $n_v - n_e - 2$	4) $n = n_v + n_e - 2$					
194.	Unit for capacitance of thermal system							
	1) BTU/deg. 2) BTU/sec	3) deg-sec/BTU	4) none of these					
195.	The mode of controller action in which there is a c	ontinuous linear betwee	en values of the					
	aeviation and manipulated variable	9) DI						
106	1) proportional (p) 2) integral (l) The steady state deviation in pressess is called as	o) E1	4) F D					
190.	1) offset 2) arror	3) both 1 and 9	4) none					
		0, 000111 and 2	1/ 110110					
	- Material Sponsered by Sai Medha, Hyd -							

197. E/p converters are mainly used in

1) pneumatic actuators

3) electric motor actuators

2) electro pneumatic actuators 4) none of these

198.	This figure represen		
1) P-control 199. Basically PLC is	2) PI control	3) PD control	4) PID control

1) ON/OFF control 2) proportional control 3) PI control 4) none of these

200. A carrier is simultaneously modulated by a two sine waves with modulation indices of 0.3 and 0.4 respectively. What is the total modulation index. 1) 0.3 2) 0.4 3) 0.5 4) 1