

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/EEE	Year / Semester : III/V	Format No.	NAC/TLP-07a.13
Subject Code : EE8553	Subject Name : Power Electronics	Rev. No.	02
Unit No : 5	Unit Name : AC-AC converters	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ / True or False / Fill up with Choices)	BTL
1	AC voltage controllers convert a) fixed ac to fixed dc b) variable ac to variable dc c) fixed ac to variable ac d) variable ac to fixed ac	L2
2	In AC voltage controllers the a) variable ac with fixed frequency is obtained b) variable ac with variable frequency is obtained c) variable dc with fixed frequency is obtained d) variable dc with variable frequency is obtained	L2
3	The AC voltage controllers are used in _____ applications. a) power generation b) electric heating c) conveyor belt motion d) power transmission	L3
4	In the principle of phase control a) the load is on for some cycles and off for some cycles b) control is achieved by adjusting the firing angle of the devices c) control is achieved by adjusting the number of on off cycles d) control cannot be achieved	L2
5	A single-phase half wave voltage controller consists of a) one SCR is parallel with one diode b) one SCR is anti parallel with one diode c) two SCRs in parallel d) two SCRs in anti parallel	L2
6	In the integral cycle control method of ac voltage controller a) the average power delivered to the load is controlled b) the instantaneous power delivered to the load is controlled c) the frequency of output voltage is controlled d) none of the mentioned	L2
7	Pulse gating is suitable for a) R loads only b) R and RL loads c) RL loads only d) all types of load	L3
8	In continues gating a) overlap angle is very high b) SCR is heated up c) size of the pulse transformer is small d) commutation cannot be achieved effectively	L2
9	High frequency gating uses a a) train of pulses b) continuous gating block c) carrier signal	L2

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/EEE	Year / Semester : III/V	Format No.	NAC/TLP-07a.13
Subject Code : EE8553	Subject Name : Power Electronics	Rev. No.	02
Unit No : 5	Unit Name : AC-AC converters	Date	30.09.2020

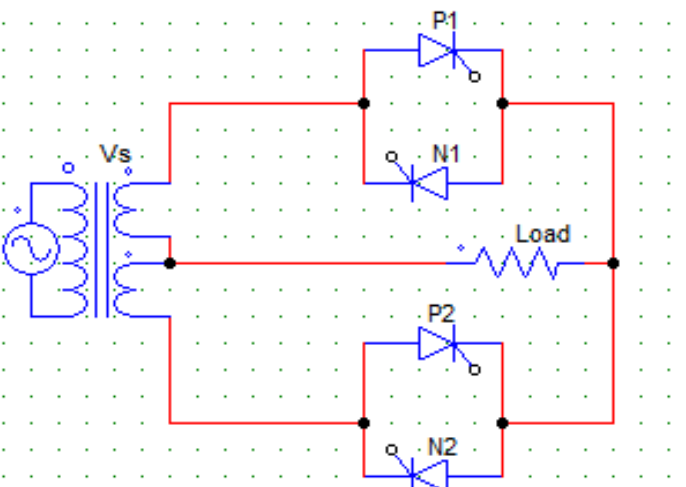
OBJECTIVE TYPE QUESTION BANK

	d) none of the above	
10	Sequence control of ac voltage controllers is employed for the improvement of _____ a) output frequency b) input frequency c) commutation d) system power factor	L3
11	n a N-stage sequence controller, each secondary is rated for _____ a) $n \times V_s$ b) V_s c) V_s/n d) $V_s \times (n-1)$	L2
12	A cycloconverter is a _____ a) one stage power converter b) one stage voltage converter c) one stage frequency converter d) none of the mentioned	L2
13	Applications of cycloconverters include a) speed control of ac drives b) induction heating c) static VAR compensation d) all of the mentioned	L3
14	The single phase mid-point type cycloconverter uses _____ number of SCRs. a) 4 b) 8 c) 6 d) none of the mentioned	L2
15	The principle of three phase cycloconverter is to a) add and remove number of SCRs b) vary progressively the firing angle of the devices c) keep the firing angle as 0° for all the devices d) none of the mentioned	L1
16	In a three phase half-wave cycloconverter _____ a) both inverting and converting action takes place b) only inversion action takes place c) only converting action takes place d) none of the mentioned	L2
17	Earlier then the semiconductor technology, _____ devices were used for voltage control applications. a) cycloconverters b) vacuum tubes c) tap changing transformer d) induction machine	L3
18	SMPS is used for a) obtaining controlled ac power supply	L3

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

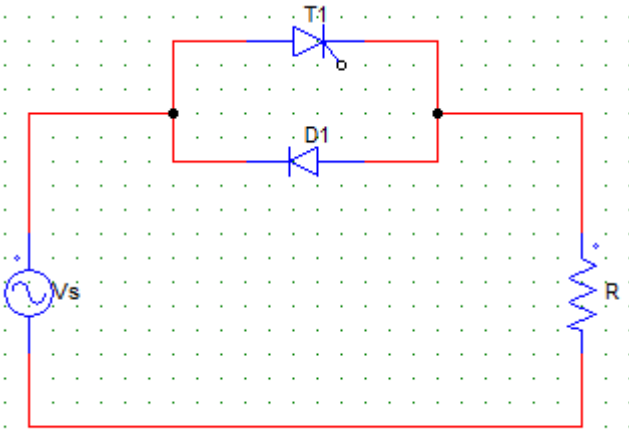
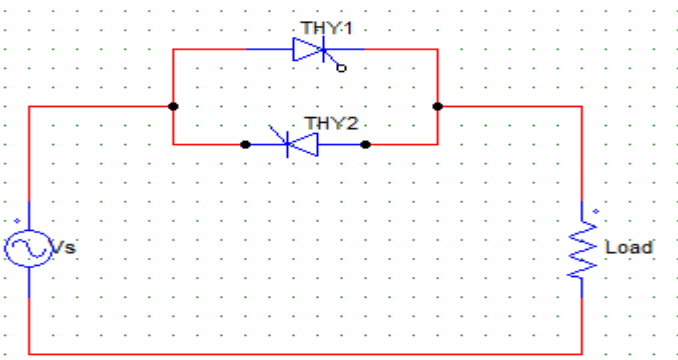
Course/Branch : BE/EEE	Year / Semester :III/V	Format No.	NAC/TLP-07a.13
Subject Code :EE8553	Subject Name :Power Electronics	Rev. No.	02
Unit No :5	Unit Name :AC-AC converters	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

	<p>b) obtaining controlled dc power supply c) storage of dc power d) switch from one source to another</p>	
19	<p>SPMS are based on the _____ principle. a) Phase control b) Integral control c) Chopper d) MOSFET</p>	L1
20	<p>_____ is used for critical loads where temporary power failure can cause a great deal of inconvenience. a) SMPS b) UPS c) MPS d) RCCB</p>	L3
22	<p>In the below given voltage controller circuit</p>  <p>a) the positive half cycle at the load is same as the supply V_s b) the negative half cycle at the load is same as the supply V_s c) the positive and negative half cycles at the load are identical to the supply d) none of the mentioned</p>	L3
23	<p>For high power applications _____ are used as static switches whereas for low power applications _____ are used. a) Transistors, SCRs b) SCRs, transistors c) Diodes, transistors d) SCRs, diodes</p>	L3
24	<p>In the below given voltage controller circuit</p>	L3

Course/Branch : BE/EEE	Year / Semester :III/V	Format No.	NAC/TLP-07a.13
Subject Code :EE8553	Subject Name :Power Electronics	Rev. No.	02
Unit No :5	Unit Name :AC-AC converters	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

	 <p>a) the positive half cycle at the load is same as the supply V_s b) the negative half cycle at the load is same as the supply V_s c) the positive and negative half cycles at the load are identical to the supply d) none of the mentioned</p>	
25	<p>The below shown controller circuit is a</p>  <p>a) half wave controller b) full wave controller c) none of the mentioned d) will depend upon the firing angle</p>	L3