For regenerative braking of dc motor, which of the following choppers are 1 point suitable
◯ Type A
Type C
Both Type A and Type B
Clear selection
In a two-quadrant chopper operating in 1st and 4th quadrants, the condition for zero output voltage is
Times when output current is zero.
Ouring regenerative braking
Output Power is same as input power
Equal turn On and turn OFF times
Clear selection
A triangular signal with a peak value of 25 units is to be compared with a DC signal of K units such that gate signal is to be issued as long as dc signal is less than 25 units. If the duty cycle is to be maintained at 0.75, then the value of K is? 20 25 18.75 15.25

A type A chopper is feeding an RLE load with Vs = 100V, E = 30V, R = 10 Ohms. L is sufficiently large to make current continuous. At this conditio what is the value of duty cycle of the chopper to make thyristor current be ripple free?	
0.3	
0.15	
0.1	
0.5	
In a Type C chopper, the action of free wheeling diode is revealed during	g 1 point
1st quadrant operation	
2nd quadrant operation	
O Both 1st and 2nd quadrant operations	
None	
Clear selection	

A resistor of 10 Ohms, is connected to an AC supply of 230V, 50 Hz through a controlled switch. If the switch is controlled through a 10 kHz constant frequency based chopper control with 20% Turn-off duration, then the duty cycle is	
0.2	
O 1	
0.01	
0.8	
Other:	
Clear selection	
In an ideal step-up chopper operation, which one of the following 1 point statement is true	
source current is greater than load current	
osource voltage is greater than load voltage	
Input power must be greater than output power	
one of the above	
Clear selection	
In a loss-free boost regulator feeding R = 10 ohms with Vs = 100V, the duty 1 point ratio is set at 40%. The average inductor current is	
O.1 A	
○ 10 A	
27.77 A	
O 20.23 A	

4/26/22, 12:32 PM Quiz - 3 (SET A)

A copy of your responses will be emailed to f20190614@hyderabad.bits-pilani.ac.in.

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