

## Power Electronics MCQ Questions and Answers Pdf

### Question: 1

Germanium is not used in the fabrication of thyristors because

- (A) it is much costlier than silicon
- (B) it has much lower thermal conductivity than silicon
- (C) its breakdown voltage is much larger than that of silicon
- (D) both a and b

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Ans: D

both a and b

### Question: 2

The turn off time is longer than the turn on time in SCR because

- (A) the forward break over voltage is high
- (B) the gate pulse has been removed
- (C) the anode and cathode junctions get reverse biased while gate junction is still forward biased
- (D) none of the above

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Ans: C

the anode and cathode junctions get reverse biased while gate junction is still forward biased

### Question: 3

Practical way of obtaining static voltage equalization in series connected SCRs is by the use of

- (A) one resistor across the string
- (B) resistors of the same value across each SCR
- (C) resistors of different values across each SCR
- (D) one resistor in series with each SCR

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Ans: B

resistors of the same value across each SCR

**Question: 4**

The nature of load current, i.e., whether load is continuous or discontinuous is controlled  
rectifiers

- (A) does not depend on type of load and firing angle delay
- (B) depends only on the firing angle delay
- (C) depends only on the type of load
- (D) depends both on the type of load an firing angle delay

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Ans: D

depends both on the type of load an firing angle delay

**Question: 5**

The duration of reverse recovery transient affects which of the following aspect in a power  
diode?

- (A) speed of response

- (B) peak inverse voltage
- (C) average current
- (D) forward threshold voltage

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Ans: B

peak inverse voltage

**Question: 6**

An inter-group reactor is used in a single phase cycloconverter circuit to

- (A) limit circulating current
- (B) limit  $di/dt$  in the semiconductor switch
- (C) reduce voltage ripples
- (D) reduce current ripples

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Ans: A

limit circulating current

**Question: 7**

Which of the following converters can feed power in any of the four quantities?

- (A) combination of a semi and full converter
- (B) semi-conductor
- (C) dual converter
- (D) full converter

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Ans: C

dual converter

**Question: 8**

In cycloconverter speed control of an induction motor, cycloconverter frequency

- (A) is always less and about one third of supply frequency
- (B) can be higher or lower than supply frequency
- (C) is higher than the supply frequency
- (D) is equal to that of supply frequency

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Ans: A

is always less and about one third of supply frequency

**Question: 9**

A single phase IGBT bridge inverter, compared to a single pulse PWM control, multiple pulse PWM

- (A) gives lower harmonic content in the output voltage
- (B) requires more number of switching devices
- (C) gives higher maximum rms output voltage
- (D) gives higher harmonic content in output voltage

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Ans: D

gives higher harmonic content in output voltage

Question: 10

Anode current in an SCR consists of

- (A) holes only
- (B) electrons only
- (C) both electron and holes
- (D) either electron or holes

Ans: A

holes only

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