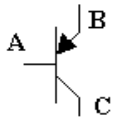
Quiz 1 Review

1

1



Name:_____

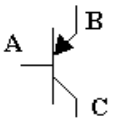
A:_____

B:_____

C:_____

2

2



Name: **PNP Transistor**

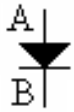
A: **Base**

B: **Emitter**

C:**Collector**

3

3



Name:_____

A:_____

B:_____

4

4

Name: **Diode**

A: **Anode**

B: **Cathode**

5

5

How is a Thyristor different than a Transistor?

How is it started?

Does it limit the current flow when on?

When does it turn off?

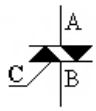
6

6

How is a Thyristor different than a Transistor?
A Thyristor has 2 operation states Blocking and Conduction.
How is it started?
Applying Proper Gate Voltage with a proper voltage Drop
Does it limit the current flow when on?
No
When does it turn off?
When the current drops below the Holding Current

7

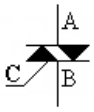
7



Name:_____
A:_____
B:_____
C:_____

8

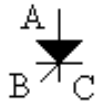
8



Name: **TRIAC**
A: **MT2**
B: **MT1**
C: **Gate**

9

9



Name:_____
A:_____
B:_____
C:_____

10

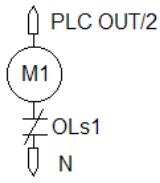
10

Name: **SCR**
A: **Anode**
B: **Gate**
C: **Cathode**

11

11

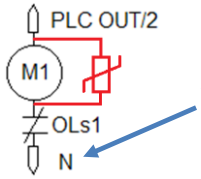
Sketch the protective device that would reduce the inductive kick produced by the coil when it is turned off.



12

12

Sketch the protective device that would reduce the inductive kick produced by the coil when it is turned off.



Hint: The Coil goes to Neutral, this is an AC Output so and MOV is used.

13

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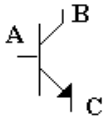


Name:_____

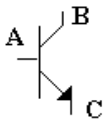
A:_____

B:_____

C:_____

14

14



Name: **NPN Transistor**

A: **Base**

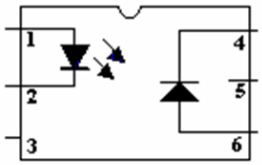
B: **Collector**

C: **Emitter**

15

15

Name:_____



16

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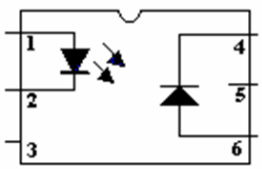
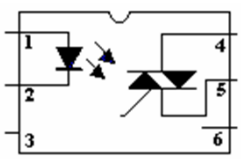
Name: **Opto-Diode**



17

17

Name:_____



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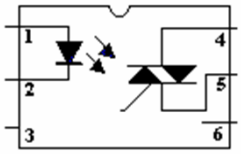
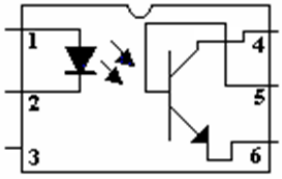
Name: **Opto-TRIAC**



19

19

Name:_____



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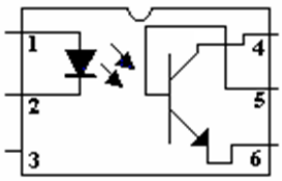
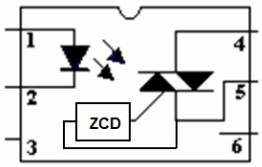
Name: **Opto-Transistor**



21

21

Name: _____



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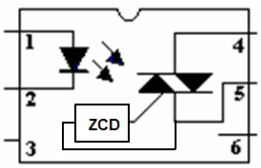
Name: **Opto-TRIAC w/ ZCD**



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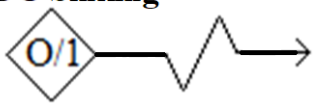
Sketch the protective device that would reduce the inductive kick produced by the coil when it is turned off.

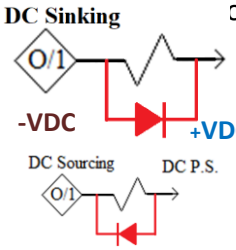
DC Sinking



24

24

Sketch the protective device that would reduce the inductive kick produced by the coil when it is turned off.



DC Sinking Input means that the Input Provides the –VDC, The other DC Connection must be +VDC.

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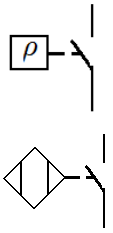
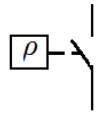
What are these symbols, what are the contact conditions and show the NEMA symbols



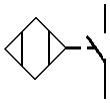
26

26

What are these symbols, what are the contact conditions and show the NEMA symbols



NO Pressure Switch

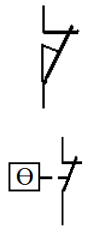


NO Inductive Prox

27

27

What are these symbols, what are the contact conditions and show the NEMA symbols



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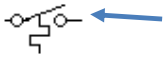
What are these symbols, what are the contact conditions and show the NEMA symbols

NC Limit Switch

NC Temperature Switch

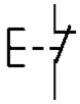


Tricky!

29

29

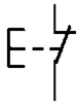
What is this symbol, what are the contact conditions and show the NEMA symbol



30

30

What is this symbol, what are the contact conditions and show the NEMA symbol



Normally Closed Pushbutton

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