Jules' Workshop

Standard

Unit 6 – Answers

Q1. Can a transformer have more than one winding in the secondary?

Yes

No

Give reasons for answer. **Example centre tapped.**

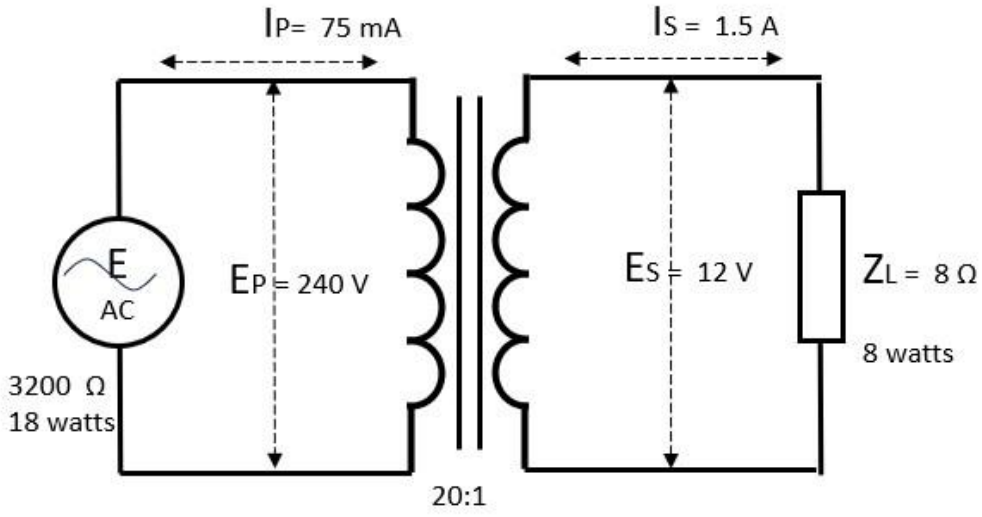
Q2 Why would a transformer have the same number of windings on the primary as the secondary?

A. Need to use the copper.
B. Want a DC supply.
C. **Need to isolate circuits.**
D. Makes a good heater.

Q 3 Need a 48 V AC supply from a 240 V supply. What is the winding ratio?

A. 2:1
B. **5:1**
C. 1:5
D. 1:2

Q 4 Complete the missing details,



Q5 Describe the operation and purpose of the following circuits. What would the output across the load look like with these circuits?

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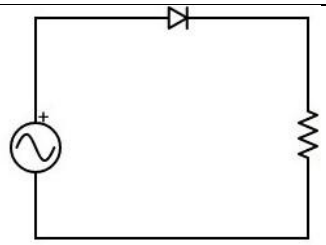
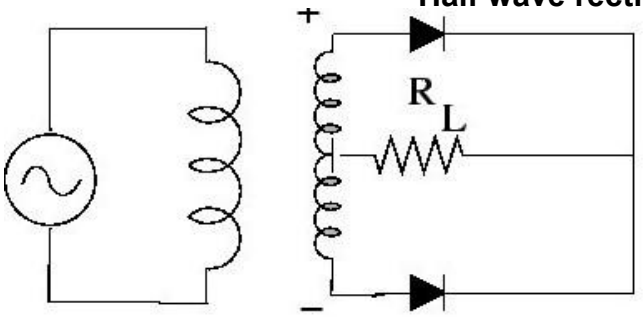
A.



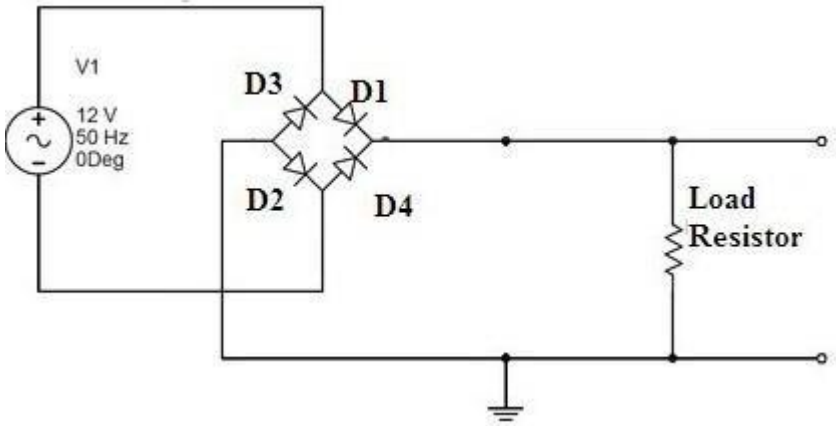
Half wave rectifier

B.



Centre tapped transformer with half wave rectifier.

C.



Full wave rectifier

Q6 What is Peak Inverse Voltage (PIV) and how does it apply to the circuits above?
The PIV applies to the reverse voltage the diode can tolerate without breakdown.

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