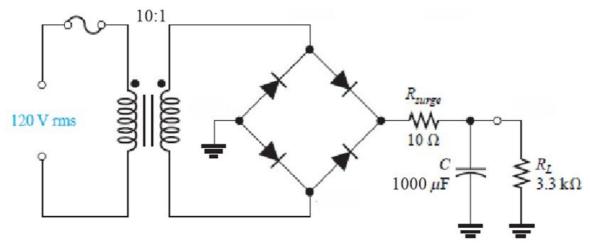
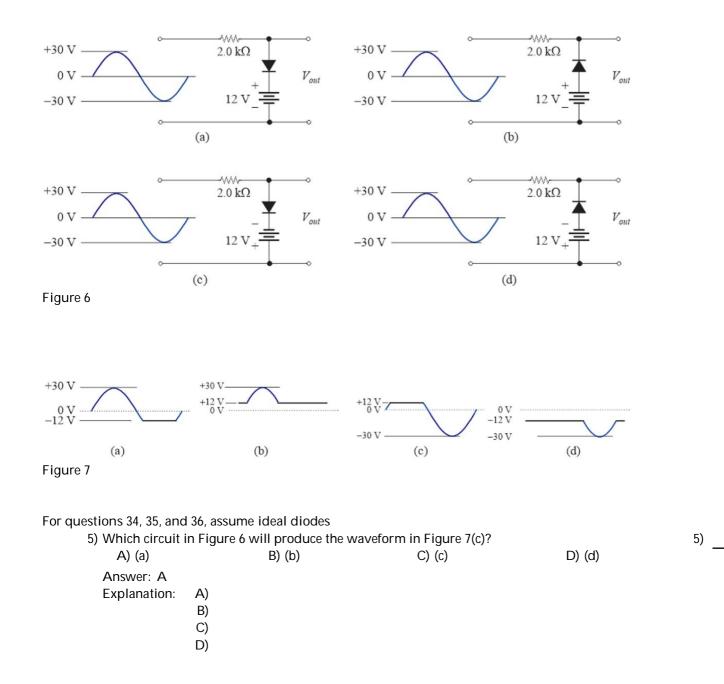
# Electronic Devices 10th Edition Floyd Test Bank

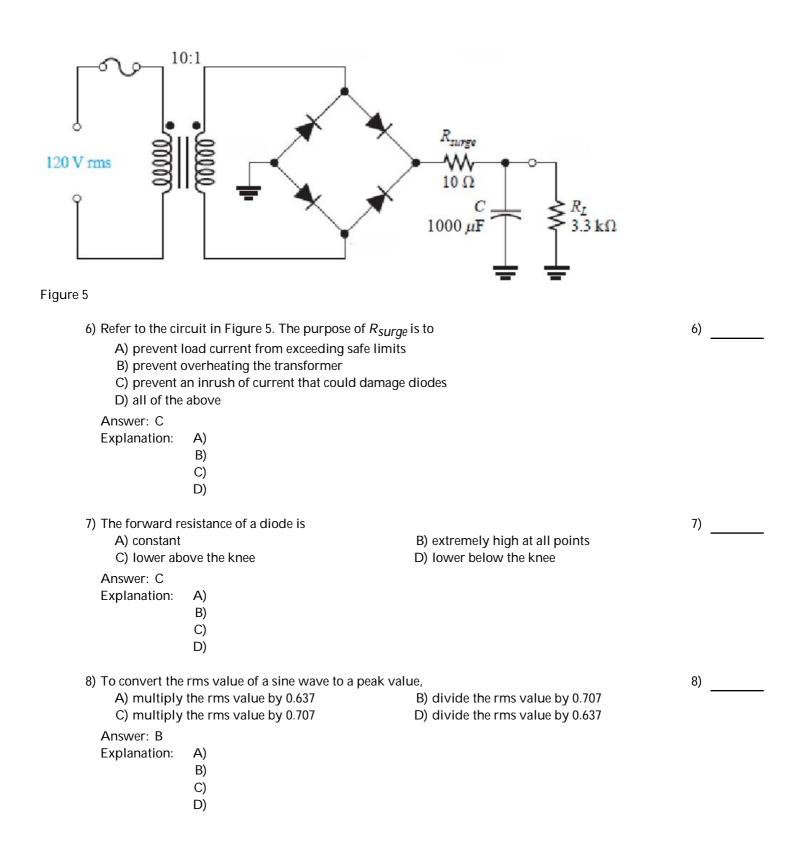
Name				
MULTIPLE CHOICE. C	hoose the one alternative the	at best completes the statem	ent or answers the question	on.
1) Reverse currer A) voltage i C) both A a		B) temperature ir D) none of the ab		1) _
Answer: C Explanation:	A) B) C) D)			
A) equal to	uency of a bridge rectifier is the input frequency as the input frequency	B) double the inp D) half the input f		2) _
Answer: B Explanation:	A) B) C) D)			
3) Assume an ide current in the	eal diode has a series 10 k $\Omega$ rediced is	esistor and is reverse-biased	with a 5.0 V source. The	3)
A) 0 mA Answer: A Explanation:	B) 0.5 mA A) B) C)	C) 2.0 mA	D) 1.0 mA	

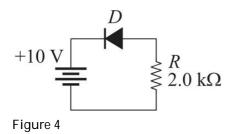


### Figure 5

4) Refer to the circuit in Figure 5. The rms primary current is approximately				
A) 5.0 mA	B) 500 mA	C) 50 mA	D) 0.5 mA	
Answer: D				
Explanation:	A)			
	В)			
	C)			
	D)			

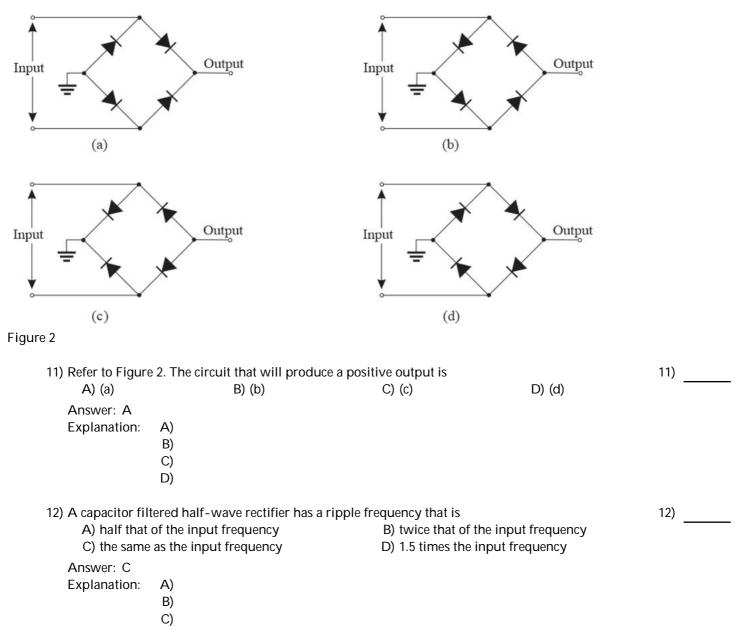




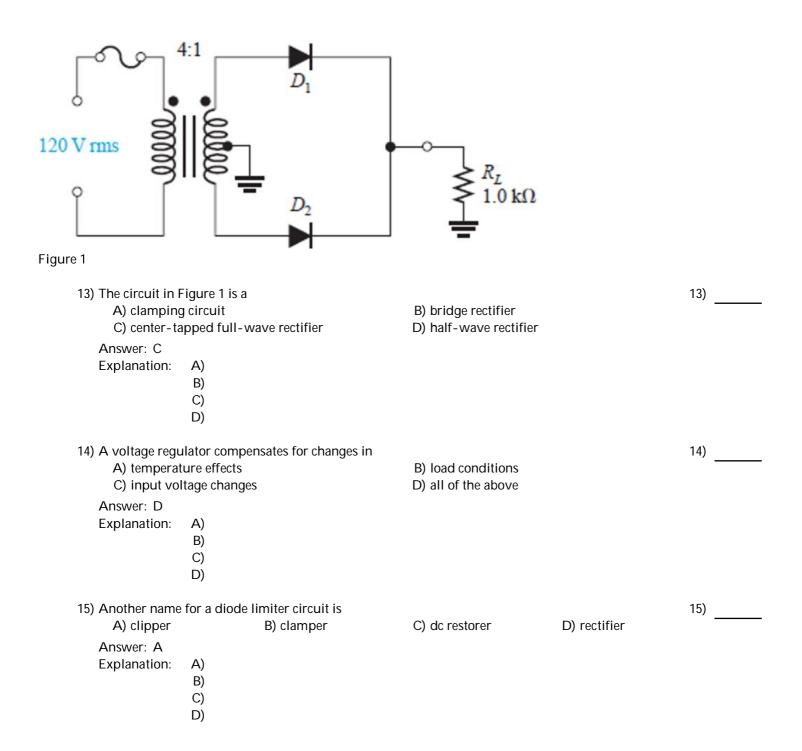


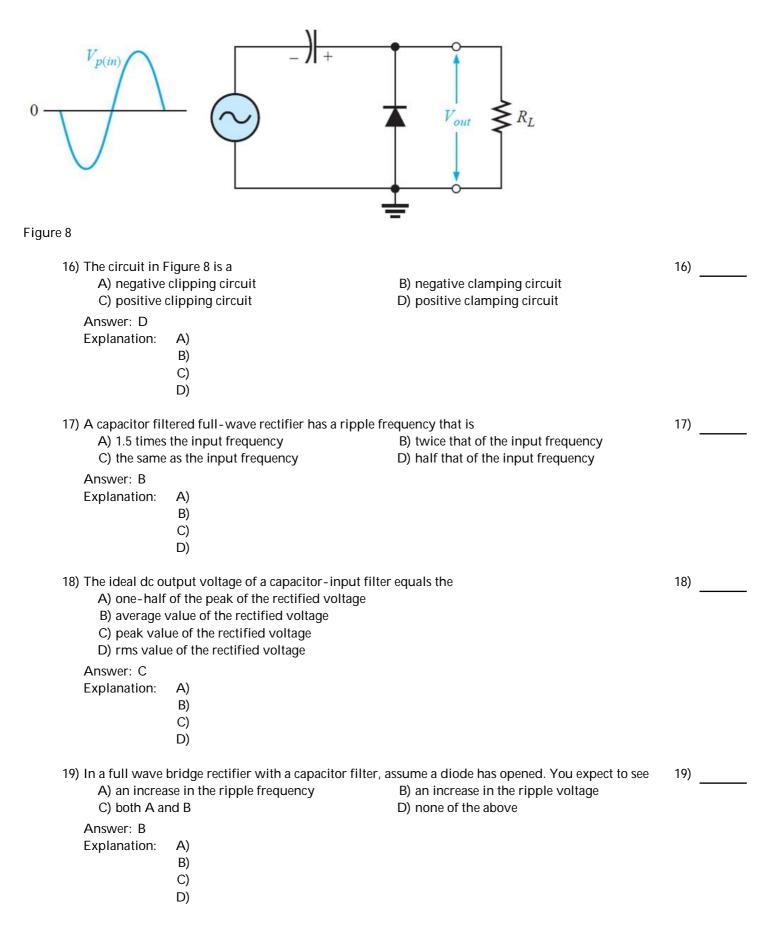
diode will be A) 0 mA	B) 4.7 mA	C) 5.7 mA	D) 0.2 mA	
Answer: A		,	,	
Explanation: A)				
B)				
C)				
D)				
)) The Vool specificat	ion on a manufacturer's da	ta sheet is the same as th	e	10)
	e at maximum power	B) reverse breakd		-
, 0	e with 1 A of current	D) PIV	5	
Answer: D				
Explanation: A)				
B)				

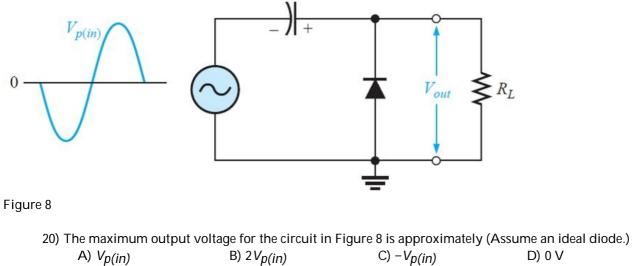
C) D)



D)







Answer: B Explanation: A) B) C)

D)

21) The component(s) immediately preceding the voltage regulation stage in a power supply is21)A) a filter capacitorB) the fuse

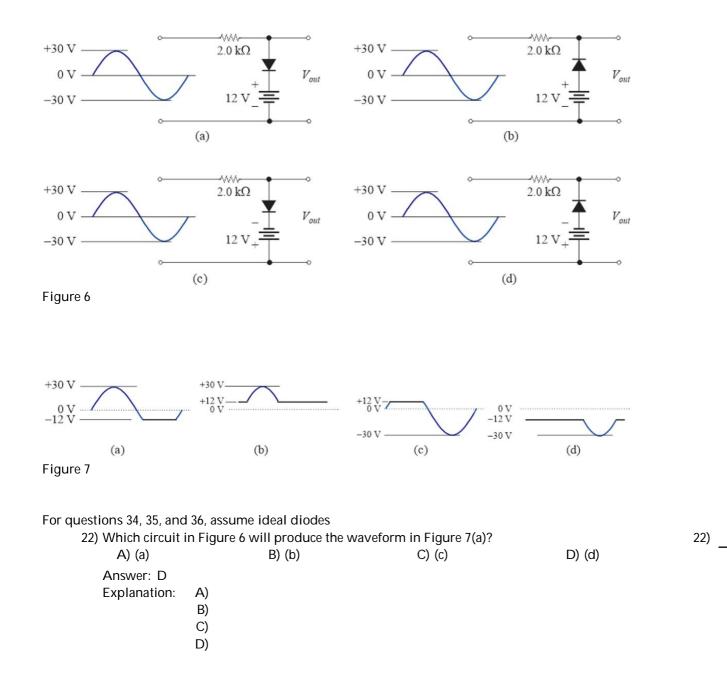
D) the diodes

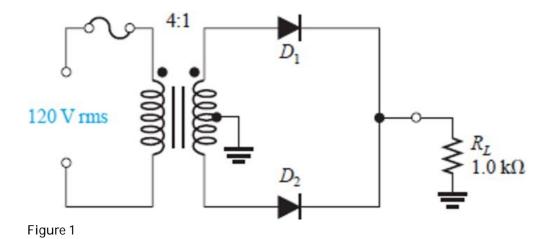
20)

A) a filter capacitor	r
C) the transformer	

Answer: A

- Explanation:
  - A) B)
    - C)
    - D)





23) For the circuit in Figure 1, assume ideal diodes. The peak inverse voltage is approximately A) 42 V B) 21 V C) 36 V D) 0 V 23)

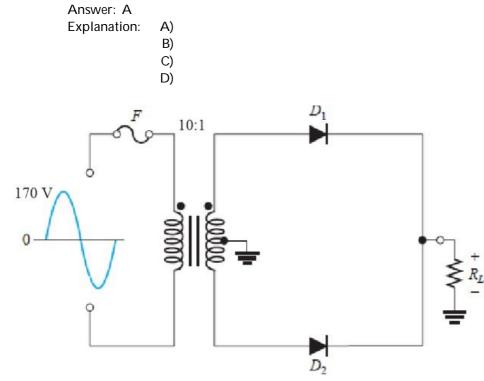


Figure 3

24) For the circuit in Figure 3, assume a diode opens. As a result, the peak output voltage will be A) larger B) zero

24)

A)	larger
C)	approximately the same

Answer: C

- Explanation: A)
  - B)
  - C)
  - D)

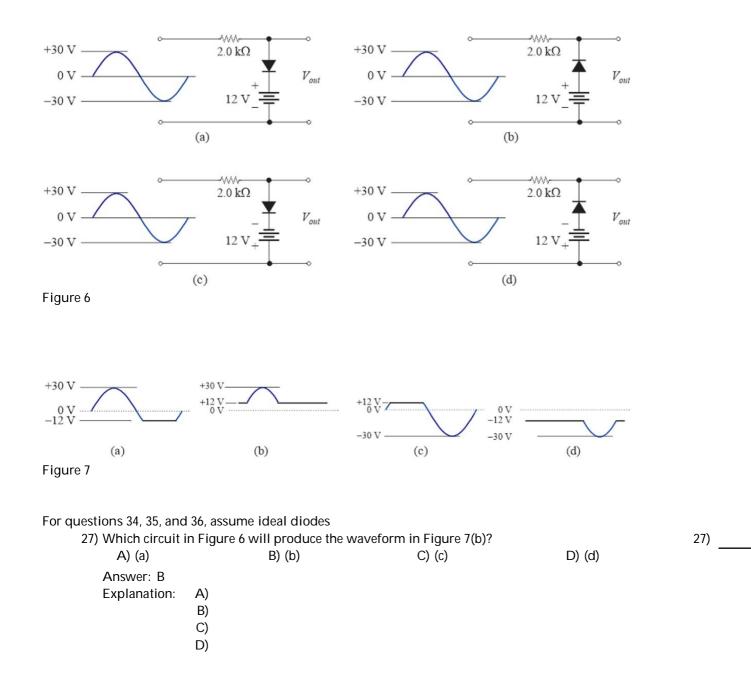
D) halved

25) A silicon diode measures a very high value of resistance in one direction and very low resistance in 25) the other. This indicates the diode is probably

A) good	B) open	C) shorted	
Answer: A			
	A) B) C)		
+10 V	<i>R</i> 2.0 kΩ		

### Figure 4

26) Refer to Figure 4. Assume the diode is a practical diode. The current in the diode will be					26)
A) 4.7 mA		B) 5.7 mA	C) 0 mA	D) 0.2 mA	
Answer: C					
Explanation:	A)				
	B)				
	C)				
	D)				



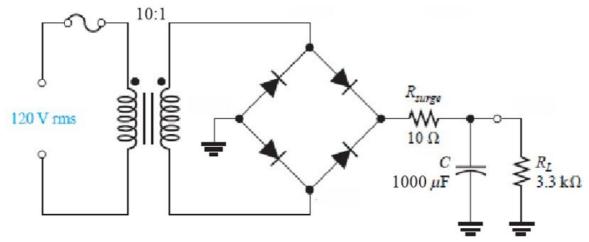
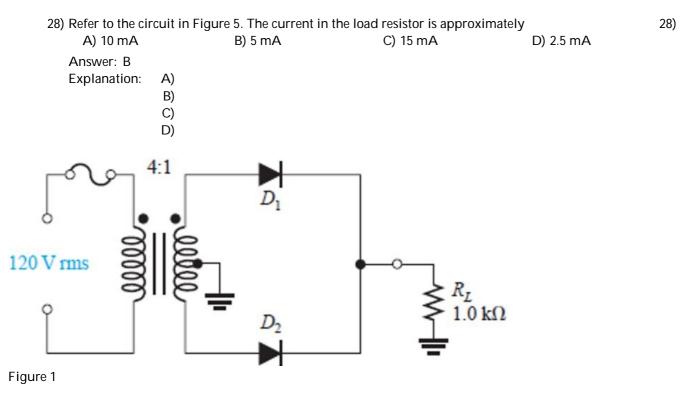


Figure 5

is



29) For the circuit in Figure 1, assume ideal diodes. The average voltage you should observe across  $R_L$  29)

A) 13.5 V B) 19.2 V C) 9.6 V D) 27.0 V Answer: A Explanation: A) B) C) D) 30) Assume an ideal diode has a series  $10 \text{ k}\Omega$  resistor and is forward-biased with a 20 V source. The current in the diode is

30)

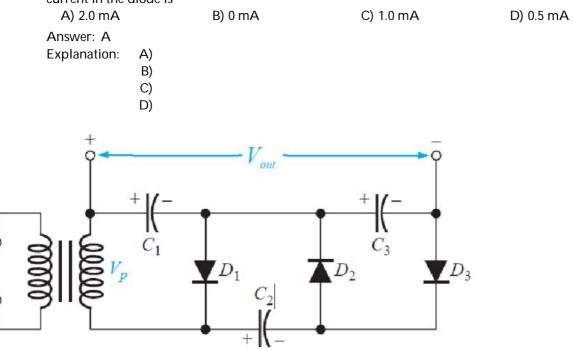
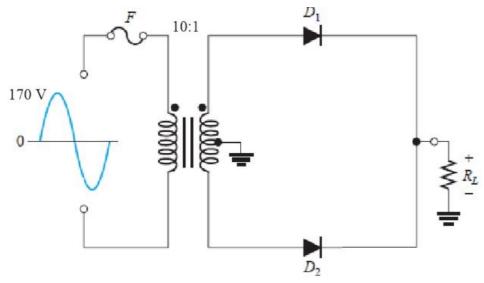


Figure 9

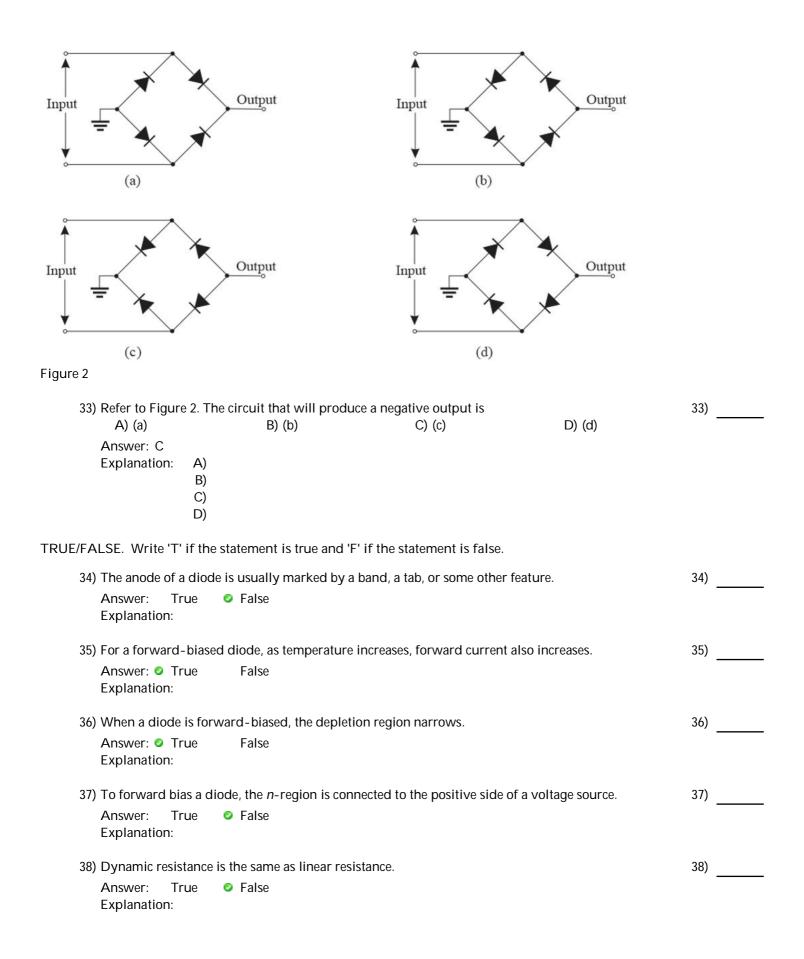
31) The circuit in Figure 9 is a 31)
A) clipping circuit
B) voltage doubler
C) voltage tripler
D) limiter circuit
C)

D)



# Figure 3

32) For the circuit	in Figure 3, assume practical	diodes. The peak output vol	tage across the load is	32)
A) 16.3 V	B) 17.7 V	C) 7.8 V	D) 9.2 V	
Answer: C				
Explanation:	A)			
	В)			
	C)			
	D)			



39) When a diode is reve	39)	
Answer: <ul><li>True</li><li>Explanation:</li></ul>	False	
40) An <i>ideal</i> diode is con	sidered to have a small forward voltage drop across the junction.	40)
Answer: True Explanation:	False	

#### **Electronic Devices 10th Edition Floyd Test Bank**

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Answer Key Testname: C2

> 1) C 2) B 3) A 4) D 5) A 6) C 7) C 8) B 9) A 10) D 11) A 12) C 13) C 14) D 15) A 16) D 17) B 18) C 19) B 20) B 21) A 22) D 23) A 24) C 25) A 26) C 27) B 28) B 29) A 30) A 31) C 32) C 33) C 34) FALSE 35) TRUE 36) TRUE 37) FALSE 38) FALSE 39) TRUE 40) FALSE