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 Ω 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 | |

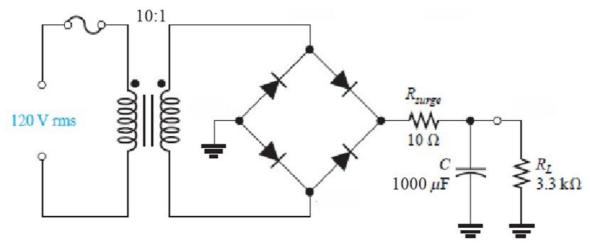
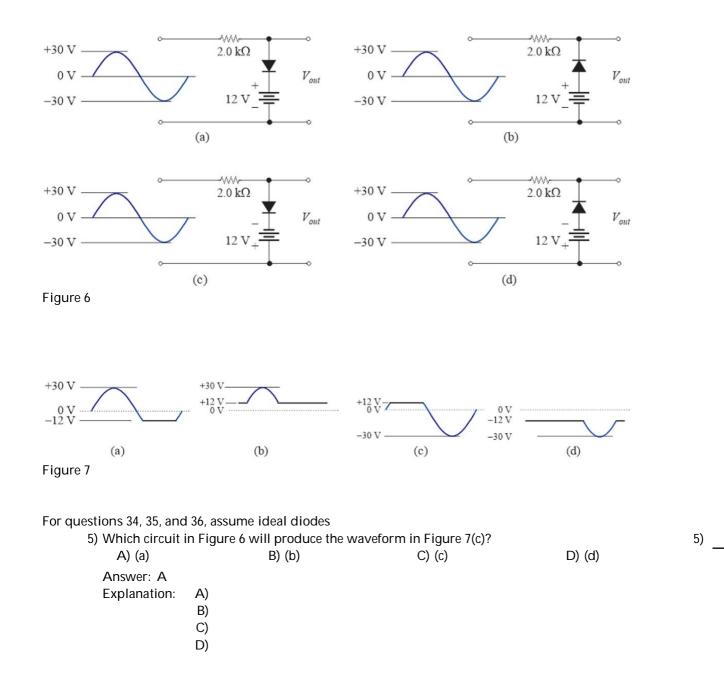
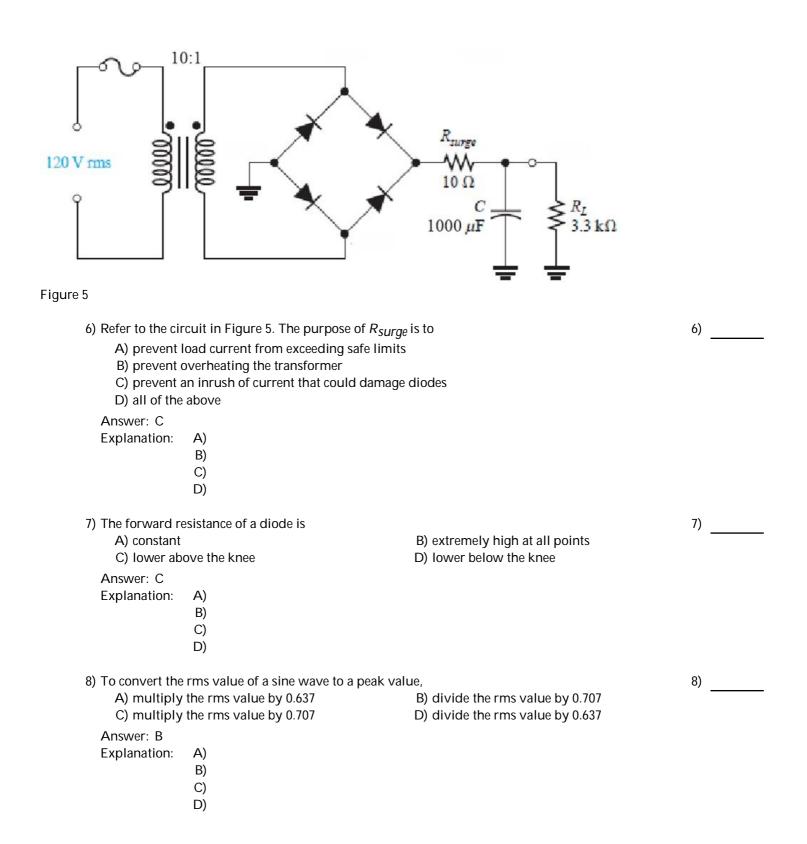
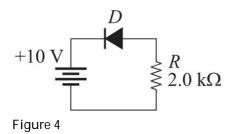


Figure 5

| 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) | | | |

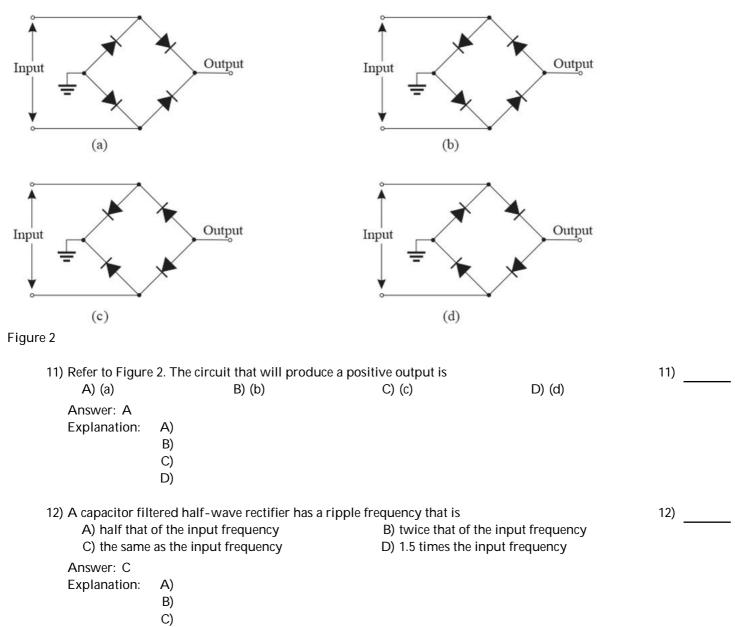




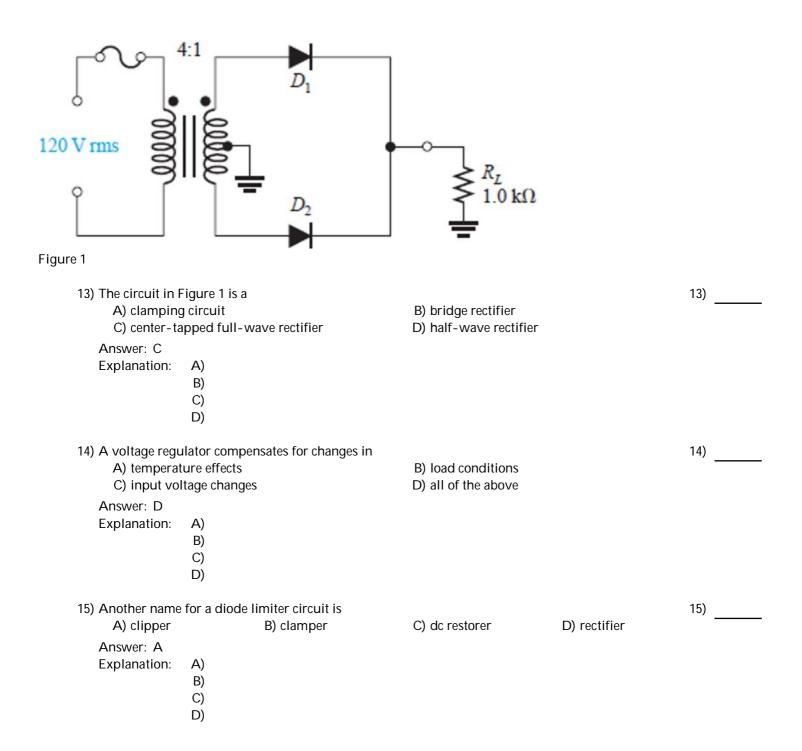


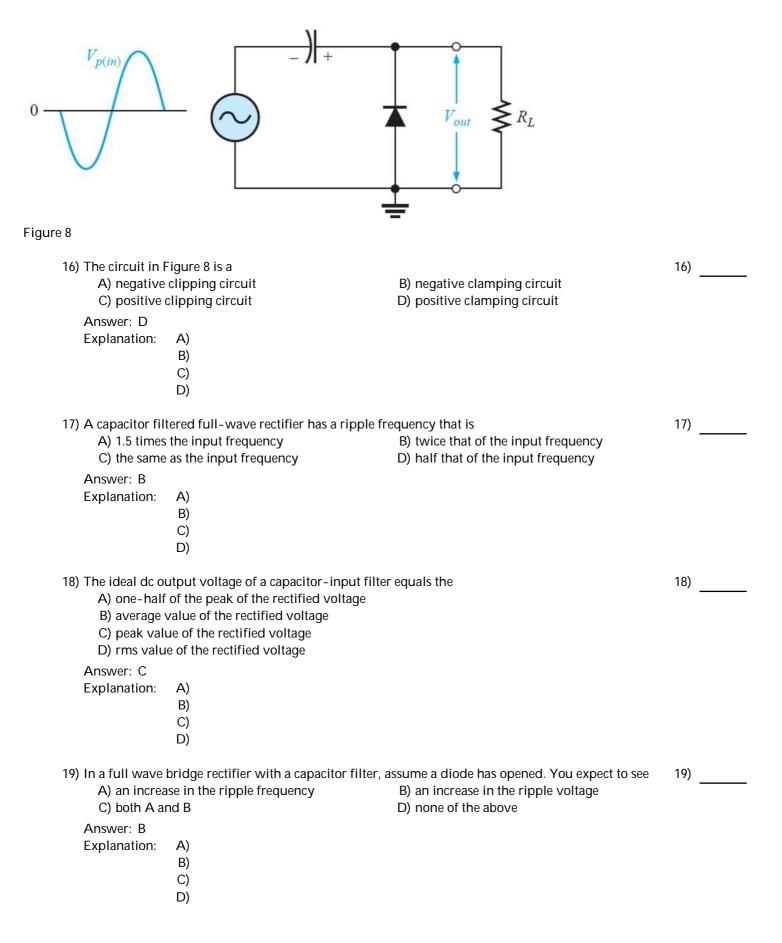
| diode will be A) 0 mA | B) 4.7 mA | C) 5.7 mA | D) 0.2 mA | |
|--------------------------|----------------------------|----------------------------|-----------|-----|
| Answer: A | | , | , | |
| Explanation: A) | | | | |
| B) | | | | |
| C) | | | | |
| D) | | | | |
|)) The Vool specificat | ion on 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) | | | | |
| | | | | |

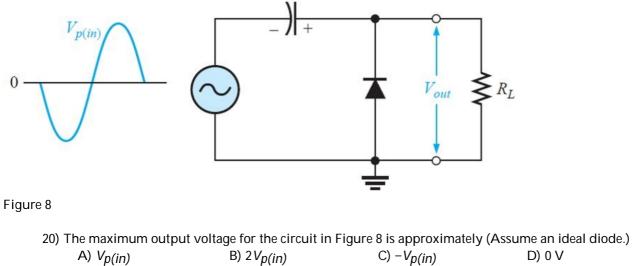
C) D)



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

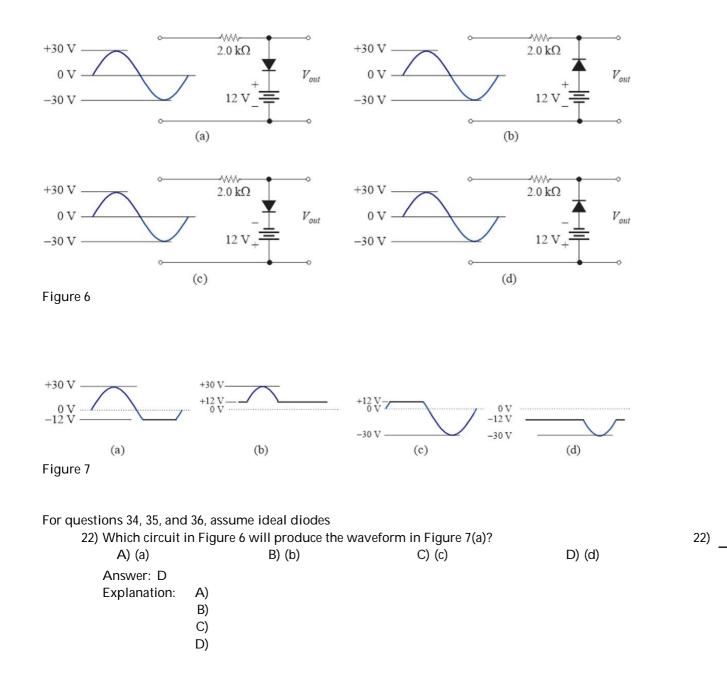
D) the diodes

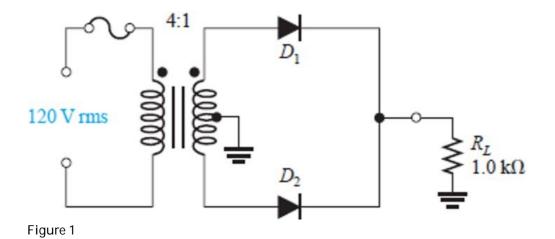
20)

| 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)

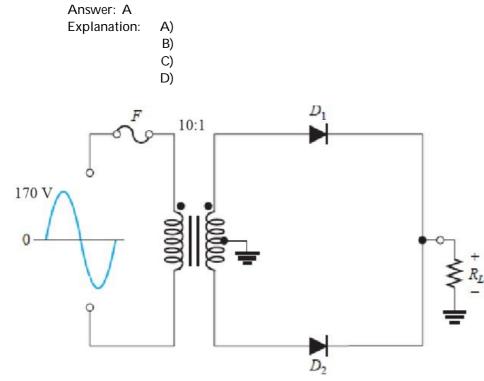


Figure 3

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)

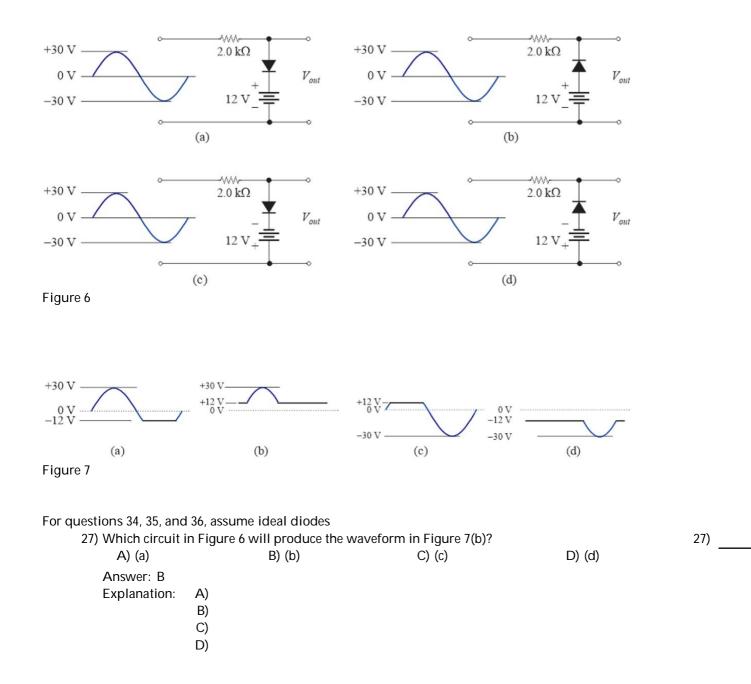
D) halved

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) | | | | |



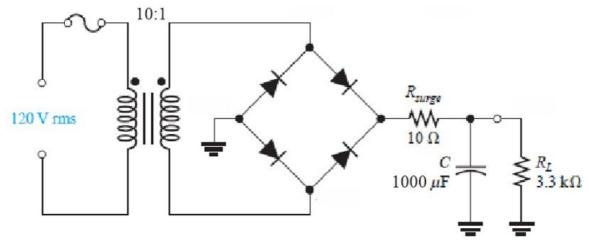
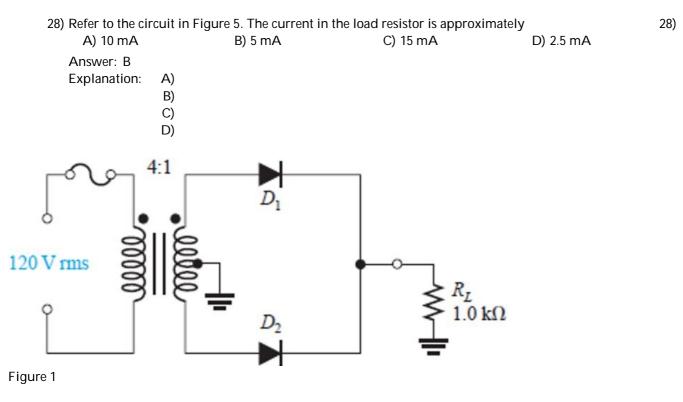


Figure 5

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)

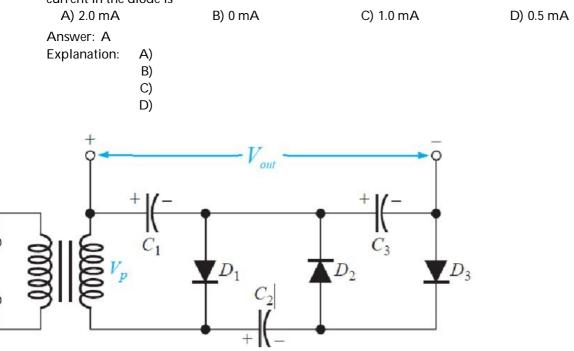


Figure 9

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

D)

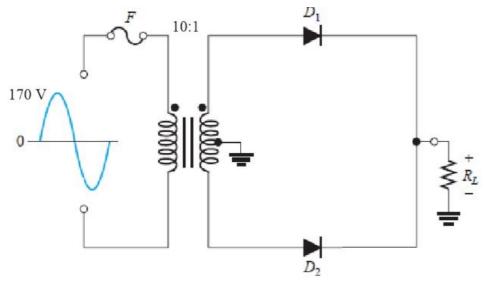
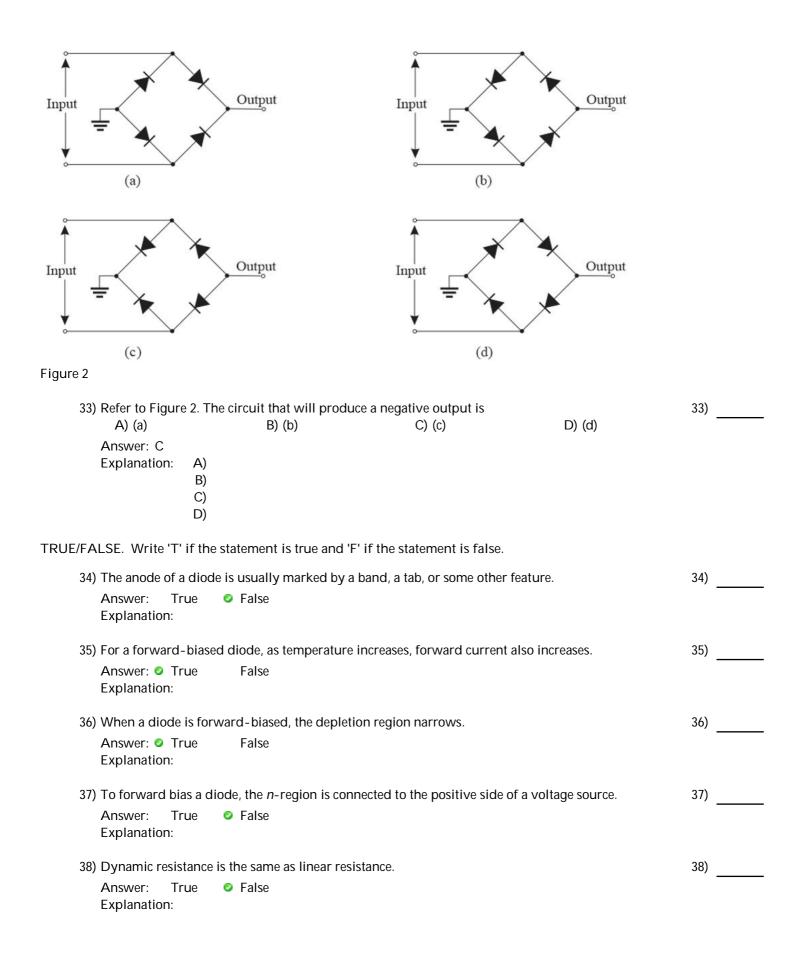


Figure 3

| 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: TrueExplanation: | 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 | |

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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