

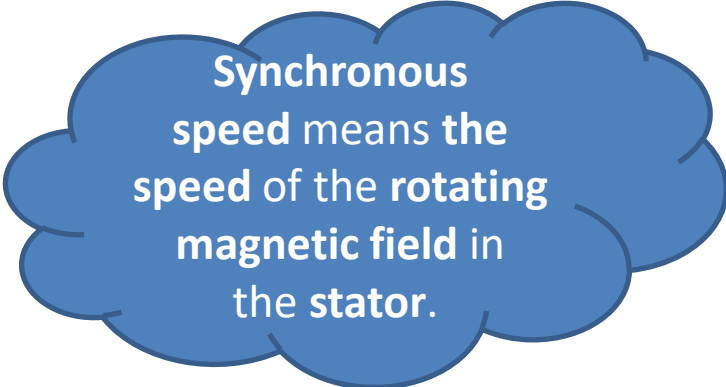
Multiple Choice Questions on unit4 (Zener Diode,transistor)

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Question

The speed at which the rotating magnetic field revolves is called as.....

- (A) Rotor speed
- (B) stator speed
- (C) synchronous speed
- (D) Go Wind speed



Synchronous speed means the speed of the rotating magnetic field in the stator.

Question

- What is the synchronous speed in rpm for a P-pole, f Hz, 3-phase induction motor?
- (A) $120P/F$
- (B) $120f/P$
- (C) $120P/A$
- (D) $120Pf$

Question

- **A zener diode has**
 - a) one pn junction
 - b) two pn junctions
 - c) three pn junctions
 - d) none of the above

Answer

- A

Question

- **A zener diode is used as**
 - a) an amplifier
 - b) a voltage regulator
 - c) a rectifier
 - d) a multivibrator

Answer

- B

Question

**The doping level in a zener diode is
that of a crystal diode**

- a) the same as
- b) less than
- c) more than
- d) none of the above

Answer

- C

Question

- **A zener diode is always connected.**
 - a) reverse
 - b) forward
 - c) either reverse or forward
 - d) none of the above

Answer

- A

Question

- **A zener diode utilizes characteristics for its operation.**
 - a) forward
 - b) reverse
 - c) both forward and reverse
 - d) none of the above

Answer

- B

Question

- **In the breakdown region, a zener diode behaves like a source.**
 - a) constant voltage
 - b) constant current
 - c) constant resistance
 - d) none of the above

Answer

- A

Question

A series resistance is connected in the zener circuit to.....

- a) properly reverse bias the zener
- b) protect the zener
- c) properly forward bias the zener
- d) none of the above



Answer

- B

Question

- **A zener diode is device**
 - a) a non-linear
 - b) a linear
 - c) an amplifying
 - d) none of the above

Answer

- A

Question

- **The number of depletion layers in a transistor is**
 - a) four
 - b) three
 - c) one
 - d) two

Answer

- D

Question

- **The base of a transistor is doped**
 - a) heavily
 - b) moderately
 - c) lightly
 - d) none of the above

Answer

- C

Question

- **The element that has the biggest size in a transistor is**
 - a) collector
 - b) base
 - c) emitter
 - d) collector-base-junction

Answer

- A

Question

- **A transistor is a operated device**
 - a) current
 - b) voltage
 - c) both voltage and current
 - d) none of the above

Answer

- A

Question

The arrow in the symbol of a transistor indicates the direction of

- a) electron current in the emitter
- b) electron current in the collector
- c) hole current in the emitter
- d) donor ion current

Answer

- C

Question

- **A heat sink is generally used with a transistor to**
 - a) increase the forward current
 - b) decrease the forward current
 - c) compensate for excessive doping
 - d) prevent excessive temperature rise

Answer

- D

Question

- **An IC has size**
 - a) Very large
 - b) Large
 - c) Extremely small
 - d) None of the above

Answer

- C

Question

ICs are generally made of

- a) Silicon
- b) Germanium
- c) Copper
- d) None of the above

Answer

- A

Question

- cannot be fabricated on an IC
- a) Transistors
- b) Diodes
- c) Resistors
- d) Large inductors and transformers

Answer

- D

Question

The active components in an IC are

- a) Resistors
- b) Capacitors
- c) Transistors and diodes
- d) None of the above

Answer

- C

Question

- **ICs are used in**
 - a) Linear devices only
 - b) Digital devices only
 - c) Both linear and digital devices
 - d) None of the above

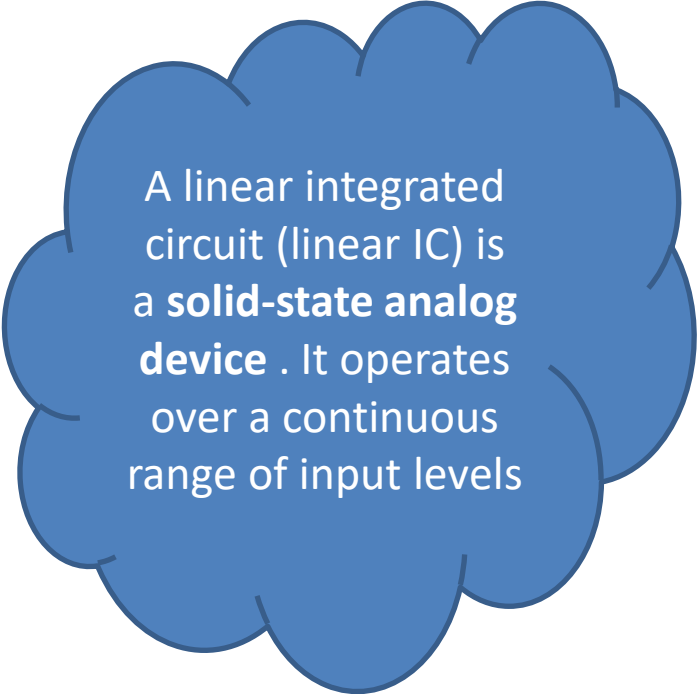
Answer

- C

Question

- **We use ICs in computers**

- a) Digital
- b) Linear
- c) Both digital and linear
- d) None of the above



A linear integrated circuit (linear IC) is a **solid-state analog device** . It operates over a continuous range of input levels

Answer

- A

Question

- **An audio amplifier is an example of**

.....

- a) Digital IC
- b) Linear IC
- c) Both digital and linear IC
- d) None of the above

Answer

- B