

# ELECTRIC DRIVES QUESTION PAPER OF 7TH SEM

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**What is electric drive short notes?** An electric drive (often referred to as an electric controller) is a device used to control the output of a motor used, for example, to produce linear motion in an electric actuator. In our article on electric motors we referred to the feedback mechanism from a servo motor, shown schematically below.

**What are the typical elements of an electric drive explain?** Electrical Drive: The system employed for motion control (rotational or translational) by means of an electrical input parameter such as voltage, frequency, etc is called an electric drive. Parts of Electric Drive are, Power Modulator, Motor, Controlling Unit, Sensing Units.

**What is the operation of electric drive?** Electrical drive technology converts electrical energy from the power supply system or from a battery into mechanical energy and transmits the resulting force into motion. Many applications that make our daily lives easier – like lifts, escalators, gate drives, washing machines, mixers, electric razors, etc.

**How do I choose an electrical drive?** Considering factors like speed, torque, duty cycle, load compatibility and maintenance requirements can help you select a compatible electric motor for your industrial facility.

**What are the three types of electrical drives?** There are three general categories of electric drives: DC motor drives, eddy current drives and AC motor drives.

**What are the advantages of electric drives?** o They have comparatively long life than the mechanical drive. o It is cleaner, as there are no flue gases, etc. o It is more

economical. o They have flexible control characteristics. o There is no need to store fuel or transportation. o It requires less maintenance. o Do not pollute environment. o It is the reliable ...

**What sensors are used in electrical drives?** According to Strasser, two-channel sensors are the most commonly used type in electric drives. These sensors provide both rotational speed and direction measurements to provide a better picture of motor, and overall system, performance.

**How do electric drive systems work?** Generally, a motor converts electrical energy into mechanical energy to generate the movement of the load. A common motor is composed of two main mechanical components, including a stator and a rotor. The stator is the stationary part that is fixed with the motor's frame while the rotor can rotate around its shaft.

**What are the main factors for choice of electric drive?** In summary, selecting an appropriate electrical drive system depends on various factors, including mechanical load requirements, power supply, environmental conditions, efficiency, control system, maintenance requirements, and cost.

**How efficient is an electric drive?** Most electric motors are designed to run at 50% to 100% of rated load. Maximum efficiency is usually near 75% of rated load. Thus, a 10-horsepower (hp) motor has an acceptable load range of 5 to 10 hp; peak efficiency is at 7.5 hp. A motor's efficiency tends to decrease dramatically below about 50% load.

**How does an electronic drive work?** In summary, an AC drive works by converting incoming AC power to DC, storing it in a DC bus, and then using power electronic devices in the inverter stage to generate a variable-frequency AC voltage that controls the speed and torque of an electric motor.

**What is the control unit of the electric drive?** The control unit sends the signal to the power modulator. The control unit controls the power modulator which operates at the small voltage and power levels. It also generates commands for the protection of the power modulator and motor.

**What are the basic elements of electrical drive?**

**What is the difference between drive and electric drive?** electric drive is more clean as there are burning of any fuel and no fumes etc. mechanical drive requires burning of therefore it may contains ash or fumes etc. electric drive is flexible as it can be brought any where and can be control from any location. due to mechanical components this drive is not flexible.

**Why electric drive is preferred over mechanical drive?** Electric drives are quick to start, have high efficiency and the speed can be easily controlled. Different motors have different characteristics and depending upon load characteristics, the motor with suitable characteristics can be chosen for a particular applications.

**What is electric drive description?** An electric drive consists of three fundamental elements: the electric motor, which converts electrical energy to mechanical energy; the transmission, which transfers the torque, speed, and power to the working machine; and the control system, which conditions the electric power delivered to the motor in accordance ...

**What are individual electric drives write short notes?** When an individual machine is fitted with its own electric motor, then the electric drive is known as individual electric drive. In case of individual electric drive, each operator has complete control on his machine. The block diagram of the individual drive is shown in the following figure.

**What is the meaning of electronic drive system?** A typical motor control system, also called electric drive system, consists of a power source, one or more power electronic converters, a motor with a load connected to its shaft, a sensing system and a controller.

**How does an electronic drive work?** In summary, an AC drive works by converting incoming AC power to DC, storing it in a DC bus, and then using power electronic devices in the inverter stage to generate a variable-frequency AC voltage that controls the speed and torque of an electric motor.

## **Simple Machines: The Science Spot Answer Key**

### **Paragraph 1:**

**Question:** What are simple machines, and what are their six types? **Answer:** Simple machines are devices that change the direction or magnitude of a force. The six types of simple machines are: lever, inclined plane, wedge, screw, pulley, and wheel and axle.

#### **Paragraph 2:**

**Question:** Describe how a lever works, and give an example. **Answer:** A lever is a rigid bar that pivots on a fixed point called a fulcrum. When a force is applied to one end of the lever, it creates a torque that causes the other end to move. An example of a lever is a seesaw.

#### **Paragraph 3:**

**Question:** Explain how an inclined plane makes work easier, and provide an example. **Answer:** An inclined plane is a sloping surface that reduces the amount of force needed to lift an object. The longer the inclined plane, the easier it is to lift the object. An example of an inclined plane is a ramp.

#### **Paragraph 4:**

**Question:** Describe how a wedge functions, and give an example. **Answer:** A wedge is a triangular-shaped device that separates objects or splits them apart. It uses the force applied to its thin edge to separate or split the objects. An example of a wedge is an axe.

#### **Paragraph 5:**

**Question:** Explain how a screw operates, and provide an example. **Answer:** A screw is a spiral-shaped device that converts rotational motion into linear motion. When a force is applied to the head of a screw, it causes the screw to rotate and move into or out of an object. An example of a screw is a bolt.

### **The System of Objects by Jean Baudrillard**

#### **What is The System of Objects?**

The System of Objects is a seminal work of post-structuralist theory written by French philosopher Jean Baudrillard. Published in 1968, the book explores the interplay between objects, consumption, and the social order. Baudrillard argues that objects have become detached from their original functions and now serve as symbols of social status and desire.

### **How does The System of Objects define objects?**

Baudrillard categorizes objects into four modes:

- **Functional objects:** Objects with a clear and practical purpose (e.g., a chair to sit on).
- **Signs of distinction:** Objects that convey social status (e.g., a designer handbag).
- **Status symbols:** Objects that represent social power and hierarchy (e.g., a luxury car).
- **Fetishes:** Objects that carry symbolic or emotional value, often irrational (e.g., a childhood toy).

### **How does consumption play a role in The System of Objects?**

Baudrillard argues that consumption has become an integral part of modern society. We no longer consume goods out of necessity but rather as a means of defining our social identities. Through consumption, we accumulate objects that reflect our aspirations and values. However, this endless pursuit of consumption creates a sense of emptiness and dissatisfaction.

### **What is Baudrillard's critique of capitalism?**

Baudrillard views the capitalist system as a "logic of objects" that prioritizes the accumulation and exchange of commodities. He argues that capitalism fosters an endless cycle of production and consumption, which leads to the devaluation of objects and the alienation of individuals.

### **Conclusion**

The System of Objects remains a provocative and influential work that examines the complex relationship between objects, consumption, and society. Baudrillard's insights into the symbolic and social significance of objects continue to resonate with contemporary scholars and critics.

### **Unlocking Big Money for Small Businesses: Discover the Secrets in Our Comprehensive PDF**

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