Assignment 11

The due date for submitting this assignment has passed.

Due on 2021-04-07, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which of the following application of hydraulic servo actuator does not use a spool type operated directional control valve?

- Capping machine
- Steering system of mobile equipment
- Seven plate type variable displacement pump
- Electro-mechanical converter

No, the answer is incorrect.
Score: 0
Accepted Answer:
Steering system of mobile equipment.

2) The following control valve does not use an electronic controller.

- Flapper-nozzle valve
- Hydraulic servo actuator
- Jet pipe valve
- Electro-mechanical converter

No, the answer is incorrect.
Score: 0
Accepted Answer:
Hydraulic servo actuator.

3) Non-return valve in electro-hydraulic actuator is used to allow the flow to suction side and restrict the flow in discharge side of pump depending on the direction of rotation of pump.

- True
- False

No, the answer is incorrect.
Score: 0
Accepted Answer:
False.

4) Feedback transducer in electro-hydraulic servo valve converts

- Mechanical signal into hydraulic flow and pressure
- Mechanical signal into electrical signal
- Electrical signal into hydraulic signal
- Hydraulic flow and pressure into mechanical signal

No, the answer is incorrect.
Score: 0
Accepted Answer:
Electrical signal into hydraulic signal.

5) The first stage in the two-stage electro-hydraulic servovalves includes

- Flapper-nozzle stage
- Jet pipe stage
- Hydraulic actuator
- Electro-mechanical converter

No, the answer is incorrect.
Score: 0
Accepted Answer:
Flapper-nozzle stage.

6) The actuator in power-by-wire technology includes

- Electro-mechanical actuator
- Electro-hydraulic actuator
- Integrated actuator package
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answer:
Electro-mechanical actuator.

7) Second stage feedback in servovalve contains

- Only mechanical
- Only electrical
- Only hydraulic
- All the above

No, the answer is incorrect.
Score: 0
Accepted Answer:
All the above.

8) What is the torque balance in electro-hydrostatic actuator?

- Applied torque on armature = feedback torque from the speed valve
- Feedback torque from the speed valve = applied torque on armature
- Feedback torque from the speed valve = applied torque on armature
- Feedback torque from the speed valve = applied torque on armature

No, the answer is incorrect.
Score: 0
Accepted Answer:
Applied torque on armature = feedback torque from the speed valve.

9) Torque motor is hermetically sealed against hydraulic fluid.

- True
- False

Yes, the answer is incorrect.
Score: 0
Accepted Answer:
True.

10) The important features of electro-hydrostatic actuator includes

- Closed cycle architecture
- Totally self-contained within the actuator assembly
- High stiffness
- Drastically reduce the hydraulic lines

No, the answer is incorrect.
Score: 0
Accepted Answer:
Closed cycle architecture.