**V. Pre-test**

**MODULE 1. INTRODUCTION TO FLUID POWER AND APPLICATION IN**

**MECHATRONICS SYSTEM**

**I. Multiple Choice.** Encircle the letter which correspond to the correct answer.

1. The technology that deals with the generation, control and transmission of

forces and movement with the use of pressurized fluids in a confined system.

a. Mechanical power

b. Electrical power

c. Fluid power

d. Power transmission system

2. Have their sole objective the delivery of a fluid from one location to another to

accomplish some useful purpose. Examples include pumping stations for

pumping water to homes, cross country gas lines.

a. Fluid transport system

b. Fluid power system

c. Power transmission system

3. Work is obtained by pressurized fluid acting directly on fluid cylinder or fluid

motor. A cylinder produces a force resulting in linear motion, whereas a fluid

motor produces a torque resulting in rotary motion.

a. Fluid transport system

b. Fluid power system

c. Power transmission system

4. Employs pressurized liquid petroleum oils and synthetic oils.

a. Pneumatics

b. Hydraulics

c. Mechanical power

d. Electric power

5. Employs compressed air which is exhausted to the atmosphere after

performing the work.

a. Pneumatics

b. Hydraulics

c. Mechanic power

d. Electric power

6. Which fluid is used in hydraulic power systems?

a. water

b. oil

c. non-compressible fluid

d. all of the above

7. Why is fluid power preferred in mobile vehicles?

1. Power can be transmitted without any delay

2. When overloaded, fluid power systems stop without damaging the

components

3. Speed variation cannot be achieved

4. Fluid is non-compressible

a. 1 and 4

b. 2, 3 and 4

c. 1, 2 and 4

d. 1 and 2

8. What effect does overloading have on fluid power and electrical systems?

a. electrical components get damaged in electrical systems

b. fluid power system stops working without damaging the components

c. both a. and b.

d. none of the above

9. How is power transmitted in fluid power systems?

a. power is transmitted instantaneously

b. power is transmitted gradually

c. both a. and b.

d. none of the above

10. Can all hydraulic fluids be compressed when extremely large pressure is

applied?

a. Yes

b. No

**II. Enumeration.** Enumerate the following questions.

1. List the six basic components used in a hydraulic systems.

2. List the six basic components used in a pneumatic systems.

3. List 5 advantages and dis advantages of Fluid power.