

HYDRAULIC AND PNEUMATIC SYSTEMS

Q. ID: ITISKILL4170VY

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Answer Key

Duration: 60 Mins

Total Marks: 26

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1. Which device converts hydraulic energy into mechanical energy?

- A) Actuator
- B) Compressor
- C) Control Valve
- D) Regulator

Answer: A) Actuator

2. Which valve safe guards the hydraulics jack?

- A) Non return valve 2
- B) Relief valve
- C) Non return valve 1
- D) Shut off valve

Answer: B) Relief valve

3. What is the working media in pneumatic system?

- A) Stream
- B) Air
- C) Oil
- D) Diesel

Answer: B) Air

4. Which law states that the pressure intensity of a static liquid equal in all direction?

- A) Newton's law
- B) Boyle's law
- C) Pascal's law
- D) Charle's law

Answer: C) Pascal's law

5. Which device transmit the pressure equally to all wheel cylinders in hydraulic brake?

- A) Servo cylinder
- B) Slave cylinder
- C) Master cylinder
- D) Booster cylinder

Answer: C) Master cylinder

6. Which measure the liquid's resistance of flow?

- A) Quality
- B) Gravity
- C) Viscosity
- D) Elasticity

Answer: C) Viscosity

7. What is the type of inner drive gear used in the internal gear oil pump?

- A) Helical gear
- B) Spiral gear
- C) Spur gear
- D) Rotor gear

Answer: C) Spur gear

8. Which device converts mechanical energy into pneumatic energy?

- A) Compressor
- B) Alternator

- C) Actuator
- D) Generator

Answer: A) Compressor

9. How many switching position in 4/2 directional control valve?

- A) One
- B) Two
- C) Four
- D) Three

Answer: B) Two

10. What is the direction of driven gear in an external gear pump?

- A) Same direction
- B) Perpendicular direction
- C) Opposite direction
- D) Inclined direction

Answer: C) Opposite direction

11. Which service unit act as filter, regulator and lubricator in the pneumatic system?

- A) Air service unit
- B) Valve unit
- C) Compressor unit
- D) Actuator unit

Answer: A) Air service unit

12. Which component of air brake system converts pneumatic into mechanical energy?

- A) Reservoir
- B) Compressor
- C) Brake valve
- D) Brake chamber

Answer: D) Brake chamber

13. What is the effect if the unloader valve is in open position?

- A) Release the air to the brake valve
- B) Continuously allow the air to the atmosphere
- C) Allow the air in to the air tank
- D) Maintain the required air pressure

Answer: B) Continuously allow the air to the atmosphere

14. Which type of pump used in the hydraulic jack?

- A) Plunger pump
- B) Internal gear pump
- C) Vane pump
- D) Gear pump

Answer: A) Plunger pump

15. Which valve is to be closed before lifting the load with hydraulic jack?

- A) Shut of valve
- B) Non return valve-2

