

HYDRAULIC AND PNEUMATIC SYSTEMS

Q. ID: ITISKILL6895NY

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Answer Key

Duration: 60 Mins

Total Marks: 26

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

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

Answer: C) Two

2. Which is the power source of pneumatic system?

- A) Air Compressor
- B) Actuator
- C) Control valve
- D) Air Service unit

Answer: A) Air Compressor

3. Which valve regulate the flow rate in hydraulic system?

- A) Non return
- B) By pass
- C) Pressure relief
- D) Delivery

Answer: D) Delivery

4. Which act as a seal in the external gear pump?

- A) Housing
- B) Gear meshing
- C) Driven gear
- D) Drive gear

Answer: B) Gear meshing

5. What is the function of hydraulic oil in hydraulic system?

- A) Increase the volume
- B) Increase the heat
- C) Reduce the pressure
- D) Transmit power

Answer: D) Transmit power

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

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

Answer: C) Plunger pump

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

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

Answer: D) Continuously allow the air to the atmosphere

8. Which unit supplies a fine mist of oil in pneumatic system?

- A) Air service unit
- B) Actuator
- C) Control valve
- D) Pressure relief valve

Answer: A) Air service unit

9. What is the power flow of pneumatic system?

- A) Control valve - Compressor - Actuator
- B) Compressor - Actuator - Control valve
- C) Compressor - Control valve - Actuator
- D) Actuator - Control valve - Compressor

Answer: C) Compressor - Control valve - Actuator

10. Which part in the internal gear pump act as seal?

- A) Crescent-shaped spacer
- B) Gears
- C) Sealing ring
- D) Gasket

Answer: A) Crescent-shaped spacer

11. Which device converts mechanical energy into pneumatic energy?

- A) Compressor
- B) Actuator
- C) Generator
- D) Alternator

Answer: A) Compressor

12. Which valve safe guards the hydraulics jack?

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

Answer: B) Relief valve

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

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

Answer: D) Brake chamber

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

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

Answer: A) Air service unit

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

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

Answer: D) Spur gear

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

- A) Viscosity
- C) Quality

- B) Elasticity
- D) Gravity

Answer: A) Viscosity

17. Which part operates the brake shoe in the hydraulic brake system?

- A) Break pedal
 - C) Master cylinder
- B) Wheel cylinder
 - D) Break drum

Answer: B) Wheel cylinder

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

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

Answer: B) Opposite direction

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

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

Answer: C) Pascal's law

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

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

Answer: B) Master cylinder

21. Which valve save the pneumatic brake components against damage?

- A) Unloader valve
- C) Relay valve

- B) Check valve
- D) Brake valve

Answer: A) Unloader valve

22. What is the reason for pneumatic brake failure?

- A) More pedal play
 - C) Defective front wheel slack adjuster
- B) Defective unloader valve
 - D) Less pedal play

Answer: B) Defective unloader valve

23. Which device converts hydraulic energy into mechanical energy?

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

Answer: B) Actuator

24. What is the working media in pneumatic system?

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

Answer: D) Air

25. Which law is applied in hydraulic brake system?

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

Answer: A) Pascal's law

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

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

Answer: B) Shut of valve