

HYDRAULIC AND PNEUMATIC SYSTEMS

Q. ID: ITISKILL2444XB

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Question Paper

Duration: 60 Mins

Total Marks: 26

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Student Name: _____	Roll No: _____
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- Which valve safe guards the hydraulics jack?
A) Shut off valve B) Relief valve
C) Non return valve 1 D) Non return valve 2
- What is the power flow of pneumatic system?
A) Actuator - Control valve - Compressor B) Compressor - Control valve - Actuator
C) Compressor - Actuator - Control valve D) Control valve - Compressor - Actuator
- How many switching position in 4/2 directional control valve?
A) One B) Three
C) Four D) Two
- 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
- Which law states that the pressure intensity of a static liquid equal in all direction?
A) Newton's law B) Charle's law
C) Pascal's law D) Boyle's law
- Which valve regulate the flow rate in hydraulic system?
A) Non return B) Delivery
C) By pass D) Pressure relief
- What is the effect if the unloader valve is in open position?
A) Maintain the required air pressure B) Allow the air in to the air tank
C) Release the air to the brake valve D) Continuously allow the air to the atmosphere
- Which service unit act as filter, regulator and lubricator in the pneumatic system?
A) Compressor unit B) Valve unit
C) Air service unit D) Actuator unit
- Which law is applied in hydraulic brake system?
A) Pascal's law B) Boyle's law
C) Charles law D) Newton's law
- Which device converts hydraulic energy into mechanical energy?
A) Actuator B) Compressor
C) Control Valve D) Regulator
- Which type of pump used in the hydraulic jack?
A) Gear pump B) Vane pump
C) Plunger pump D) Internal gear pump
- Which valve save the pneumatic brake components against damage?
A) Unloader valve B) Brake valve
C) Relay valve D) Check valve
- Which is the power source of pneumatic system?
A) Air Service unit B) Control value
C) Air Compressor D) Actuator
- Which part operates the brake shoe in the hydraulic brake system?
A) Break pedal B) Master cylinder
C) Wheel cylinder D) Break drum
- Which valve is to be closed before lifting the load with hydraulic jack?
A) Non return valve-2 B) Non return valve-1
C) Relief valve D) Shut of valve
- 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
- Which device transmit the pressure equally to all wheel cylinders in hydraulic brake?

- A) Slave cylinder
- C) Servo cylinder

- B) Booster cylinder
- D) Master cylinder

- A) Driven gear
- C) Drive gear

- B) Housing
- D) Gear meshing

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

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

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

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

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

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

21. What is the working media in pneumatic system?

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

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

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

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

24. What is the reason for pneumatic brake failure?

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

25. Which device converts mechanical energy into pneumatic energy?

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

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

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