

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: _____

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

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

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

2. Which is the power source of pneumatic system?

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

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

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

3. What is the power flow of pneumatic system?

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

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

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

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

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

12. 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) Continuously allow the air to the atmosphere
- D) Release the air to the brake valve

5. Which device converts mechanical energy into pneumatic energy?

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

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

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

6. Which device converts hydraulic energy into mechanical energy?

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

14. Which law is applied in hydraulic brake system?

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

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

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

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

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

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

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

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

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

9. Which valve safe guards the hydraulics jack?

17. Which unit supplies a fine mist of oil in pneumatic

system?

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

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

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

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

- A) Unloader valve
- B) Relay valve
- C) Brake valve
- D) Check valve

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

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

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

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

22. What is the working media in pneumatic system?

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

23. What is the reason for pneumatic brake failure?

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

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

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

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

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

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

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