

HYDRAULIC AND PNEUMATIC SYSTEMS

Q. ID: ITISKILL6895NY

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Question Paper

Duration: 60 Mins

Total Marks: 26

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Student Name: _____ Roll No: _____

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

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

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

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

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

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

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

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

5. Which valve safe guards the hydraulics jack?

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

6. What is the reason for pneumatic brake failure?

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

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

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

8. Which device converts hydraulic energy into mechanical energy?

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

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

- A) Vane pump B) Plunger pump

C) Internal gear pump D) Gear pump

10. What is the power flow of pneumatic system?

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

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

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

12. Which is the power source of pneumatic system?

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

13. What is the working media in pneumatic system?

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

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

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

15. Which law is applied in hydraulic brake system?

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

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

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

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

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

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

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

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

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

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

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

22. 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) Maintain the required air pressure
D) Allow the air in to the air tank

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

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

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

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

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

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

26. Which device converts mechanical energy into pneumatic energy?

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