

Trinity iti Udupi

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67.31% 105 / 156

Student Name	Joseph	Access Code	7461
Attempt No.	#1	Completion Time	02:14 PM
Rank	#7	Total Questions	156

105 SCORE

156 MAX MARKS

105 CORRECT

51 INCORRECT

Answer Review

Q1 **INCORRECT** How electrons move in a conductor?

A. Current ☐

B. Resistance ☐

C. Conductance ☐

D. Voltage difference ☒

Q2 **INCORRECT** Which is the Ohm's Mathematical Expression?

A. $I=(V/R)$ ☒

B. $I=(R/V)$ ☐

C. $V=(I/R)$ ☐

D. $R=(I/V)$ ☐

Q3 **CORRECT** What type of resistor is used in the vehicle flasher unit?

A. Ballast resistor ☒

B. Film resistor

C. Printed resistor

D. Integrated resistor

Q4 **CORRECT** Which material is required to make integrated circuit chips?

A. zinc

B. steel

C. silicon ☒

D. copper

Q5 **CORRECT** Which electronic component is used as a solid state switch?

A. Inductor

B. Resistor

C. Capacitor

D. Transistor ☒

Q6 **CORRECT** Which is a temperature sensitive resistor?

A. Diode

B. Thyristor

C. Thermistor ☒

D. Transistor

Q7 **CORRECT** Which component is used to measure the engine coolant temperature?

A. Thermistor ☒

B. Resistor

C. Transistor

D. Diode

Q8 **INCORRECT** What is the permissible voltage drop in the electrical circuit?

A. 0.1 V

B. 0.2 V ☒

C. 0.3 V ☐

D. 0.4 V

Q9 **CORRECT** How many cells are in the 12V Battery?

A. 2 cells

B. 6 cells ☒

C. 9 cells

D. 12 cells

Q10 **CORRECT** What is the material of positive plate in the lead acid Battery?

A. Tin

B. Lead peroxide ☒

C. Antimony

D. Spongy lead

Q11 **CORRECT** What is the material of negative plate in the lead acid Battery?

A. Spongy lead ☒

B. Tin

C. Antimony

D. Lead peroxide

Q12 **CORRECT** What is the colour of positive plates in the charged lead - acid - battery?

A. Grey

B. Brown ☒

C. White

D. Black

Q13 **INCORRECT** How the lead acid Battery is classified?

A. Dry cell ☐

B. Secondary cell ☒

C. Alkaline cell

D. Primary cell

Q14 **INCORRECT** How is the Battery capacity expressed?

A. Ampere - hour rating ☒

B. Voltage - hour rating

C. Ampere rating

D. Voltage rating ☐

Q15 **CORRECT** Which instrument is used to measure the electrical resistance?

A. Ammeter

B. Voltmeter

C. Ohmmeter ☒

D. Wattmeter

Q16 **INCORRECT** Which instrument is prohibited to connect with live wire?

A. Ammeter ☐

B. Voltmeter

C. Ohmmeter ☒

D. Wattmeter

Q17 **CORRECT** Which law state that 'The current is directly proportional to the voltage and inversely proportional to the resistance'?

A. Ohm's Law ☒

B. Hook's Law

C. Boyle's Law

D. Newton's Law

Q18 **CORRECT** What is the purpose of colour code in cables?

A. Colour refers the current rating

B. Colour refers the voltage rating

C. Easy identification of each circuit ☒

D. Refers the size of the wire

Q19 **CORRECT** Which device have the ability to store electrical charge?

A. Capacitor ☒

B. Resistor

C. Insulator

D. Conductor

Q20 **CORRECT** Which device used to step up the voltage in the spark ignition system?

A. Ignition coil ☒

B. Spark plug

C. Condenser

D. High Tension Cable

Q21 **CORRECT** What is the energy conversion of battery during discharge?

A. Electrical energy into heat energy

B. Chemical energy into electrical energy ☒

C. Electrical energy into chemical energy

D. Electrical energy into mechanical energy

Q22 **INCORRECT** What is the energy conversion of battery during charging?

A. Electrical energy into chemical energy ☒

B. Electrical energy into heat energy

C. Chemical energy into electrical energy ☐

D. Electrical energy into mechanical energy

Q23 **CORRECT** Which shell electrons has least energy?

A. K shell electron ☒

B. L shell electron ☐

C. M shell electron ☐

D. N shell electron ☐

Q24 **CORRECT** Which is the semi conductor materials?

A. Arsenic and boron ☐

B. Gallium and indium ☐

C. Germanium and silicon ☒

D. Aluminium and antimony ☐

Q25 **INCORRECT** How the semi conductor material can be identified with atomic structure?

A. Two electrons in the outer most orbit ☐

B. Three electrons in the outer most orbit ☐

C. Four electrons in the outer most orbit ☒

D. Five electrons in the outer most orbit ☐

Q26 **CORRECT** Which cable is the thickest used in the automobile wiring?

A. Horn cable ☐

B. Head light cable ☐

C. Starter motor cable ☒

D. Wiper motor cable ☐

Q27 **CORRECT** What is the specific gravity of fully charged battery?

- A. 1.170 - 1.200
- B. 1.210 - 1.230
- C. 1.240 - 1.250
- D. 1.260 - 1.280 ☒

Q28 **CORRECT** What is the specific gravity reading range of half charged battery?

- A. 1.260 - 1.280
- B. 1.230 - 1.260
- C. 1.200 - 1.230 ☒
- D. 1.170 - 1.200

Q29 **INCORRECT** What type of emf is produced if the conductor moved and cut the magnetic field?

- A. Dynamically induced emf ☒
- B. Statistically induced emf
- C. Electro-chemical induced emf
- D. Electro-magnetic induced emf ☐

Q30 **INCORRECT** How the number of positive and negative plates are compared in a lead acid Battery?

- A. Positive plate is equal to the negative plate ☐
- B. Negative plate is one more than positive plates ☒
- C. Negative plate is one less than positive plate
- D. Positive plates is one more than negative plates

Q31 **CORRECT** What is the use of Ohmmeter in an electrical circuit?

A. Measure the resistance ☒

B. Measure the current

C. Measure the voltage

D. Measure the power

Q32 **CORRECT** Which measuring instrument used to measure the Ampere, volt and resistance?

A. Wattmeter

B. Energy meter

C. Galvana meter

D. Multi meter ☒

Q33 **CORRECT** What does number 25 in the cable size (25/0.012) indicate?

A. Length of the strand

B. Number of the strand ☒

C. Diameter of the strand

D. Thickness of the cable

Q34 **CORRECT** What is the ampere hour rating if battery deliver 5 ampere and period of 20 hours?

A. 80 Ampere hour

B. 90 Ampere hour

C. 100 Ampere hour ☒

D. 110 Ampere hour

Q35 **CORRECT** Which acid is used in the lead acid Battery?

- A. Nitric acid
- B. Sulphuric acid ☒
- C. Hydro bromic acid
- D. Hydro chloric acid

Q36 **CORRECT** What is the advantage of free maintenance sealed battery?

- A. No need for check and top up distilled water. ☒
- B. No need for recharging of battery
- C. No chance for sulphation of battery terminals
- D. No need for disconnect the terminals to remove battery

Q37 **INCORRECT** Which instrument is used to check the continuity of the field coils of DC motor?

- A. Ammeter ☐
- B. Voltmeter
- C. Ohmmeter ☒
- D. Wattmeter

Q38 **CORRECT** Which type of the circuit has an infinite resistance?

- A. Open circuit ☒
- B. Short circuit
- C. Series closed circuit
- D. Parallel closed circuit

Q39 **CORRECT** Which type of the circuit leads to hazard effect?

A. Open circuit

B. Series circuit

C. Short circuit ☒

D. Parallel circuit

Q40 **CORRECT** What is the net resistance 'R' if 'R1' and 'R2' resistance are connected in series?

A. $R = R1 + R2$ ☒

B. $R = R1 \div R2$

C. $R = R1 \times R2$

D. $R = R1/R2$

Q41 **CORRECT** What is the reason for fuse blown out in an electrical circuit?

A. Open circuit

B. Short circuit ☒

C. Series circuit

D. Parallel circuit

Q42 **CORRECT** When did first car rolled in the street of Calcutta?

A. 1810

B. 1887 ☒

C. 1910

D. 1950

Q43 **INCORRECT** Which year Hindustan motor established ambassador car industry in India?

A. 1900

B. 1900

C. 1940 ☐

D. 1980 ☐

Q44 **INCORRECT** Which type of brake used in heavy vehicle parking?

A. Hydraulic

B. Mechanical ☐

C. Electrical brake

D. Pneumatic brake ☐

Q45 **CORRECT** Which ministry of India regulate the motor vehicle activity?

A. Minister of finance

B. Minister of defence

C. Minister of rural and development

D. Minister of road transport and highways ☐

Q46 **CORRECT** Which service equipment is used to lift a car?

A. Arbor press

B. Hydraulic valve

C. Hydraulic hoist ☐

D. Hydraulic press

Q47 **INCORRECT** Which equipment used for quick inspection under chassis of a car?

A. Stand ☐

B. Screw jack

C. Trolley jack ☐

D. Two post hoist

Q48 **INCORRECT** Where the emulsion tube is provided in solex carburetor?

A. Choke

B. Idle jet

C. Main jet ☐

D. Cold starter ☐

Q49 **CORRECT** What is the specification of 6J x 15?

A. Tyre size

B. Engine size

C. Vehicle size

D. Wheel rim size ☐

Q50 **CORRECT** Which digit indicate the engine type in 17 digit of vin number?

A. 2 digit

B. 3 digit

C. 5 digit

D. 8 digit ☐

Q51 **CORRECT** How the amount of work done in a specification is called?

A. Torque

B. Power ☒

C. Stroke length

D. Cycle

Q52 **INCORRECT** Which engine has more length?

A. Opposed engine ☐

B. 'V' engine

C. Inline engine ☐

D. Radial engine

Q53 **INCORRECT** Which is the engine having cylinders in 180 Degree?

A. Inline engine

B. V- engine ☐

C. Opposed engine ☐

D. Radial engine

Q54 **CORRECT** How can identify a four stroke engine?

A. Valves ☒

B. Ports

C. Cavities

D. Passages

Q55 **CORRECT** What is the working cycle of compression ignition engine?

A. Diesel cycle ☒

B. Otto cycle

C. Sterling cycle

D. Rankin cycle

Q56 **CORRECT** How the ports are opened and closed in two stroke engine?

A. Movement of valve

B. Movement of Rocker arm

C. Movement of piston ☒

D. Movement piston pin

Q57 **CORRECT** How many crank shaft rotation required to open exhaust valve one time in four stroke engine?

A. One

B. Two ☒

C. Three

D. Four

Q58 **CORRECT** What is the volume of the space above the piston at TDC?

A. Swept volume

B. Clearance volume ☒

C. Total volume

D. Displace volume

Q59 **CORRECT** How many times, ports are open in two rotation of crank shaft in two stroke engine?

A. One time

B. Two times ☒

C. Three times

D. Four times

Q60 **CORRECT** Where is the air fuel mixture compressed in the two stroke petrol engine?

A. Intake port

B. Exhaust port

C. Transfer port

D. Combustion chamber ☒

Q61 **CORRECT** How many crank shaft rotations required to get one power in four stroke single cylinder diesel engine?

A. One

B. Two ☒

C. Three

D. Four

Q62 **CORRECT** What is the angle of throw for 4 cylinder engine?

A. 60 Degree

B. 90 Degree

C. 120 Degree

D. 180 Degree ☒

Q63 **INCORRECT** Which is used to determine the stroke of an engine?

A. Cycle ☐

B. Throw ☐

C. Dia of piston

D. Length of connecting rod

Q64 **INCORRECT** How the set of operations performed in sequence of motion of the piston in an engine produce power is called?

A. Cycle ☐

B. Stroke

C. Stroke ☐

D. Efficiency

Q65 **CORRECT** Which is the compression pressure of C.I engine?

A. 90 to 160 psi

B. 180 to 280 psi

C. 290 to 390 psi

D. 400 to 550 psi ☐

Q66 **INCORRECT** Which is the engine called as constant volume cycle?

A. S.I engine ☐

B. C.I engine ☐

C. Turbine engine

D. Steam engine

Q67 **CORRECT** A cycle consisting of one constant pressure, one constant volume and two isentropic processes is known as

A. Constant volume

B. Constant pressure

C. Diesel Cycle ☒

D. Isothermal

Q68 **CORRECT** A cycle consisting of one constant pressure, one constant volume and two isentropic processes is known as

A. Constant volume

B. Constant pressure

C. Diesel Cycle ☒

D. Isothermal

Q69 **INCORRECT** How can identify a two stroke engine?

A. Valves ☐

B. Ports ☒

C. Cavities

D. Passages

Q70 **CORRECT** What is the compression ratio of an engine, its clearance volume is 10 c.c and swept volume is 90 c.c?

A. 08:01

B. 09:01

C. 10:01 ☒

D. 11:01

Q71 **INCORRECT** Which is the power developed in an engine?

A. BHP

B. IHP ☐

C. IHP ☐

D. RHP

Q72 **INCORRECT** What is the stroke length of the engine if its throw of the crankshaft is 40 mm?

A. 20 mm

B. 40 mm ☐

C. 60 mm

D. 80 mm ☐

Q73 **INCORRECT** When the valve clearance to be adjusted?

A. Fully closed ☐

B. Partially closed

C. Fully opened

D. Just opened ☐

Q74 **CORRECT** Which is the starting system used in heavy vehicles?

A. Electric motor cranking ☐

B. Hand cranking

C. Gasoline engine cranking

D. Compressed air cranking

Q75 **CORRECT** Which engine has fuel injection pump?

- A. Petrol engine
- B. Diesel engine ☒
- C. CRDI engine
- D. MPFI engine

Q76 **CORRECT** Which engine has carburetor?

- A. Petrol ☒
- B. Diesel
- C. Kerosene
- D. Mineral oil

Q77 **INCORRECT** What is the mechanical efficiency of an engine?

- A. $(\text{BHP}/\text{IHP}) \times 100$ ☒
- B. $(\text{BHP}/\text{FHP}) \times 100$ ☐
- C. $(\text{IHP}/\text{BHP}) \times 100$
- D. $(\text{FHP}/\text{BHP}) \times 100$

Q78 **CORRECT** What is the process of driving exhaust gases in two stroke engine out of cylinder?

- A. Combustion
- B. Super charging
- C. Scavenging ☒
- D. Intaking

Q79 **CORRECT** Why suction tube in the tank is raised above?

- A. To enter air
- B. To avoid suction of water in fuel ☒
- C. To enter condensed water
- D. To act atmospheric pressure

Q80 **CORRECT** What is the purpose of valve in AC fuel pump?

- A. Creating suction
- B. Creating pressure
- C. Supply correct quantity of fuel
- D. Allow the fuel to suck and deliver ☒

Q81 **CORRECT** Which causes the air enter into cylinder?

- A. Air filtering
- B. Engine vacuum ☒
- C. AC fuel pump pressure
- D. Carburettor air-horn pressure

Q82 **INCORRECT** How the AC mechanical pump's fuel delivery pressure is determined?

- A. Spring pressure on diaphragm ☐
- B. Maximum stroke of diaphragm ☒
- C. Size of the pumping chamber
- D. Maximum deflection of diaphragm

Q83 **INCORRECT** What is the purpose of needle valve in carburetor?

- A. Decrease the fuel pressure
- B. Excess supply of fuel at idle
- C. Always holds correct level of fuel ☐
- D. Controls the air flow of the engine ☐

Q84 **CORRECT** What is the purpose of throttle valve in the carburetor?

- A. Filter the fuel
- B. Always holds correct fuel
- C. Excess supply of fuel at idle
- D. Controls air fuel mixture into the engine ☐

Q85 **INCORRECT** What is the purpose of accelerating pump circuit?

- A. Provides an economic mixture
- B. Provides mixture for low speed
- C. Provides mixture for idle speed ☐
- D. Provides extra fuel during pick up speed ☐

Q86 **CORRECT** Which device is vaporizing of fuel and mixing it with air in petrol engine?

- A. Tank
- B. Fuel filter
- C. Carburetor ☐
- D. AC fuel pump

Q87 **CORRECT** Which of the following fuel quality determines burning property of petrol?

A. Volatility

B. Viscosity

C. Cetane number

D. Octane number ☒

Q88 **CORRECT** Which of the following fuel quality determines burning property of diesel?

A. Volatility

B. Viscosity

C. Cetane number ☒

D. Octane number

Q89 **CORRECT** Which of the following fuel quality determines to evaporate?

A. Volatility ☒

B. Viscosity

C. Cetane number

D. Octane number

Q90 **CORRECT** Which of the following fuel quality determines fuel to flow?

A. Volatility

B. Viscosity ☒

C. Cetane number

D. Octane number

Q91 **INCORRECT** Which association of india is playing crucial role in less pollution?

A. AAI (Automobile Association of India)

B. AIA (Automotive industry Association) ☐

C. AASI (Automobile Association if South India)

D. ARAI (Automotive research association of India) ☐

Q92 **CORRECT** How many national automotive testing and R&D infrastructure projects (NATRIP) are established in India?

A. 4

B. 5

C. 6

D. 7 ☐

Q93 **CORRECT** How many flywheel rotation requies to compelet one cycle in two stroke engine?

A. One ☐

B. Two

C. Three

D. Four

Q94 **CORRECT** What is heat?

A. Torque

B. Force

C. Energy ☐

D. Velocity

Q95 **CORRECT** What is indicated horse power?

- A. Power developed in the cylinder ☒
- B. Power developed in the flywheel
- C. Power developed in the propeller shaft
- D. Power developed in the wheel

Q96 **INCORRECT** What is brake horse power?

- A. Power available at fly wheel ☒
- B. Power available at the cylinder
- C. Power available at the wheels
- D. Power available at the gear box ☐

Q97 **INCORRECT** What is the formula for Frictional horse power (FHP)?

- A. $IHP - BHP$ ☐
- B. $IHP + BHP$ ☒
- C. IHP / BHP
- D. BHP / IHP

Q98 **CORRECT** Which hand tool used for circular cut in sheet metal work?

- A. Straight snip
- B. Bend snip ☒
- C. Combination plier
- D. Side cutting plier

Q99 **CORRECT** Which spanner used for zero setting in outside micrometer?

A. Hooks spanner ☐

B. Ring spanner

C. Double end spanner

D. Adjustable spanner

Q100 **CORRECT** Which gauge is used to check the inflation of tyre?

A. Wire gauge

B. Feeler gauge

C. Vacuum gauge

D. Pressure gauge ☐

Q101 **CORRECT** What is the smallest reading of vernier caliper?

A. Deviation

B. Tolerance

C. Least count ☐

D. Allowance

Q102 **INCORRECT** Which one is the indirect measuring instrument?

A. Steel rule

B. Inside caliper ☐

C. Inside micrometer

D. Outside micrometer ☐

Q103 **CORRECT** What is the name of beveled graduated sleeve of outside micro meter?

A. Anvil

B. Barrel

C. Spindle

D. Thimble ☒

Q104 **INCORRECT** What is flaring?

A. Increasing the diameter of a tube end ☒

B. Decreasing the diameter of a tube ☐

C. Increasing the length of a tube

D. Decreasing the length of a tube

Q105 **CORRECT** Which plier used for bending narrow strips of thin metal sheet?

A. Flat nose plier ☒

B. Round nose plier

C. Slip joint plier

D. Internal circlip plier

Q106 **CORRECT** Which type of socket spanner can be turned to an angle?

A. Socket spanner

B. Deep socket spanner

C. Spark plug socket spanner

D. Swivel socket spanner ☒

Q107 **CORRECT** Which tool used to tighten the nuts and bolts at recommended tightness?

- A. Stud wrench
- B. Pipe wrench
- C. Torque wrench ☒
- D. Adjustable wrench

Q108 **CORRECT** What is the use of ball peen hammer head?

- A. Strike soft metal
- B. Strike the metal
- C. Stamp the specifications
- D. Spread the metal in all direction ☒

Q109 **INCORRECT** Which metal tube is used for single thickness flare?

- A. Brass
- B. Bronze
- C. Aluminium ☐
- D. Copper ☒

Q110 **CORRECT** How the hammers are specified?

- A. Weight and shape ☒
- B. Size and shape
- C. Metal and shape
- D. Metal and weight

Q111 **INCORRECT** Which type of chisel used to remove excess metal from welded joint?

A. Cross cut chisel

B. Half round chisel

C. Flat chisel ☒

D. Diamond point chisel ☐

Q112 **INCORRECT** Which instrument is used to check the right angle?

A. Steel rule

B. Try square ☒

C. Firm joint caliper

D. Spring Joint caliper ☐

Q113 **CORRECT** Which is used for marking and setting of work?

A. Surface plate

B. Marking table

C. V- Block ☒

D. Bench vice

Q114 **INCORRECT** What is the purpose of angle plate?

A. Machining

B. Marking ☒

C. Polishing

D. Grinding ☐

Q115 **CORRECT** What is the purpose of half round chisel?

A. Cut excess metal

B. Cut curved grooves ☒

C. Squaring metal at corners

D. Cut keyways

Q116 **INCORRECT** Which screw driver is used in blind space?

A. Ratchet screw driver

B. Offset screw driver ☒

C. Philips screw driver

D. Stumpy screw driver ☐

Q117 **INCORRECT** What is the purpose of the cross pein in the hammer?

A. Fix the handle

B. Strike the metal ☐

C. Strike the metal in all direction

D. Spread the metal in one direction ☒

Q118 **INCORRECT** Which refers the size of hexagonal Allen key?

A. Size of the radius

B. Size of the diagonal ☐

C. Size of the diameter

D. Size across the flat ☒

Q119 **CORRECT** How the screw driver is specified?

A. Length of blade and width of tip ☐

B. Width and diameter of the edge

C. Thickness and length

D. Shape and length

Q120 **CORRECT** Which part of engine can be measured by dial gauge?

A. Crank pin

B. Gudgeon pin

C. Piston

D. Cylinder bore ☐

Q121 **INCORRECT** What is the working principle of dial test indicator?

A. Leverage motion

B. Spring motion ☐

C. Linear motion into reciprocating motion

D. Linear motion into rotary motion ☐

Q122 **CORRECT** Which instrument is used to check the run-out of crankshaft journals?

A. Telescopic gauge

B. Dial test indicator ☐

C. Bore dial gauge

D. Vernier gauge

Q123 **CORRECT** Which gauge used to check the spark plug gap?

A. Telescopic gauge

B. Vernier gauge

C. Pitch gauge

D. Feeler gauge ☒

Q124 **CORRECT** Which instrument used to check the piston ring end gap?

A. Feeler gauge ☒

B. Vernier gauge

C. Pitch gauge

D. Telescopic gauge

Q125 **INCORRECT** What are the two instruments used to measure the warpage of the fly wheel?

A. Knife, wooden blank ☐

B. Steel rule, metal shim

C. Wooden plank, metal shim

D. Straight edge, feeler gauge ☒

Q126 **CORRECT** Which precision instrument used for taking external, internal and depth measurement?

A. Vernier caliper ☒

B. Depth micrometer

C. Inside micrometer

D. Outside micrometer

Q127 **INCORRECT** What is the use of ratchet stop in out side micro meter?

A. Prevent load ☐

B. Prevent speed

C. Prevent excessive pressure ☐

D. Prevent sliding

Q128 **CORRECT** What is the distance covered by the spindle in one full rotation of thimble in outside micrometer?

A. 2 mm

B. 1.5 mm

C. 1.0 mm

D. 0.5 mm ☐

Q129 **CORRECT** Which measuring gauge needs to be set up to a fixed dimension before use?

A. Depth gauge

B. Dial test indicator

C. Dial bore gauge ☐

D. Vernier dial gauge

Q130 **CORRECT** Which gauge used to check leakage of inlet manifold?

A. Feeler gauge

B. Vacuum gauge ☐

C. Pressure gauge

D. Emission gauge

Q131 **CORRECT** Which measure the liquid's resistance of flow?

- A. Gravity
- B. Elasticity
- C. Quality
- D. Viscosity ☒

Q132 **CORRECT** Which law is applied in hydraulic brake system?

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

Q133 **CORRECT** Which law states that the pressure intensity of a static liquid equal in all direction?

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

Q134 **CORRECT** How many switching position in 4/2 directional control valve?

- A. Four
- B. Two ☒
- C. One
- D. Three

Q135 **CORRECT** What is the function of hydraulic oil in hydraulic system?

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

Q136 **INCORRECT** What is the power flow of pneumatic system?

- A. Compressor - Actuator - Control valve
- B. Control valve - Compressor - Actuator
- C. Actuator - Control valve - Compressor ☒
- D. Compressor - Control valve - Actuator ☐

Q137 **INCORRECT** Which type of pump used in the hydraulic jack?

- A. Gear pump ☒
- B. Plunger pump ☐
- C. Vane pump
- D. Internal gear pump

Q138 **INCORRECT** Which device converts mechanical energy into pneumatic energy?

- A. Actuator
- B. Generator ☒
- C. Alternator
- D. Compressor ☐

Q139 **INCORRECT** Which device converts hydraulic energy into mechanical energy?

A. Actuator ☐

B. Regulator

C. Compressor ☐

D. Control Valve

Q140 **CORRECT** Which valve safe guards the hydraulics jack?

A. Relief valve ☐

B. Shut off valve

C. Non return valve 1

D. Non return valve 2

Q141 **CORRECT** Which device transmit the pressure equally to all wheel cylinders in hydraulic brake?

A. Slave cylinder

B. Servo cylinder

C. Master cylinder ☐

D. Booster cylinder

Q142 **CORRECT** Which component of air brake system converts pneumatic into mechanical energy?

A. Reservoir

B. Brake valve

C. Compressor

D. Brake chamber ☐

Q143 **CORRECT** Which service unit act as filter, regulator and lubricator in the pneumatic system?

A. Air service unit ☒

B. Compressor unit

C. Valve unit

D. Actuator unit

Q144 **CORRECT** Which part operates the brake shoe in the hydraulic brake system?

A. Break drum

B. Break pedal

C. Wheel cylinder ☒

D. Master cylinder

Q145 **CORRECT** Which is the power source of pneumatic system?

A. Actuator

B. Control value

C. Air Compressor ☒

D. Air Service unit

Q146 **CORRECT** What is the working media in pneumatic system?

A. Air ☒

B. Oil

C. Diesel

D. Stream

Q147 **CORRECT** Which act as a seal in the external gear pump?

- A. Housing
- B. Drive gear
- C. Driven gear
- D. Gear meshing ☒

Q148 **INCORRECT** Which valve regulate the flow rate in hydraulic system?

- A. By pass
- B. Delivery ☒
- C. Non return
- D. Pressure relief ☐

Q149 **CORRECT** Which part in the internal gear pump act as seal?

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

Q150 **CORRECT** What is the direction of driven gear in an external gear pump?

- A. Same direction
- B. Inclined direction
- C. Opposite direction ☒
- D. Perpendicular direction

Q151 **CORRECT** Which unit supplies a fine mist of oil in pneumatic system?

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

Q152 **INCORRECT** What is the type of inner drive gear used in the internal gear oil pump?

- A. Spur gear ☒
- B. Spiral gear
- C. Rotor gear ☐
- D. Helical gear

Q153 **INCORRECT** What is the reason for pneumatic brake failure?

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

Q154 **CORRECT** 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 ☒

Q155 **INCORRECT** Which valve is to be closed before lifting the load with hydraulic jack?

A. Relief valve ☐

B. Shut of valve ☐

C. Non return valve-1

D. Non return valve-2

Q156 **CORRECT** Which valve save the pneumatic brake components against damage?

A. Brake valve

B. Check valve

C. Relay valve

D. Unloader valve ☐