

Duration: 150 Mins

Total Marks: 156

Q.ID: ITISKILL2267CY

1. How many national automotive testing and R&D infrastructure projects (NATRIP) are established in India?

- A) 7  
B) 5  
C) 4  
D) 6

**Answer: A) 7**

2. Which gauge used to check leakage of inlet manifold?

- A) Pressure gauge  
B) Emission gauge  
C) Feeler gauge  
D) Vacuum gauge

**Answer: D) Vacuum gauge**

3. Which year Hindustan motor established ambassador car industry in India?

- A) 1940  
B) 1900  
C) 1900  
D) 1980

**Answer: D) 1980**

4. What is the material of positive plate in the lead acid Battery?

- A) Antimony  
B) Lead peroxide  
C) Spongy lead  
D) Tin

**Answer: B) Lead peroxide**

5. What is the distance covered by the spindle in one full rotation of thimble in outside micrometer?

- A) 1.0 mm  
B) 1.5 mm  
C) 0.5 mm  
D) 2 mm

**Answer: C) 0.5 mm**

6. Which measuring instrument used to measure the Ampere, volt and resistance?

- A) Energy meter  
B) Multi meter  
C) Wattmeter  
D) Galvana meter

**Answer: B) Multi meter**

7. Which is the power developed in an engine?

- A) IHP  
B) IHP  
C) RHP  
D) BHP

**Answer: A) IHP**

8. Which type of socket spanner can be turned to an angle?

- A) Spark plug socket spanner  
B) Deep socket spanner  
C) Swivel socket spanner  
D) Socket spanner

**Answer: C) Swivel socket spanner**

9. Which gauge used to check the spark plug gap?

- A) Pitch gauge  
B) Telescopic gauge  
C) Vernier gauge  
D) Feeler gauge

**Answer: D) Feeler gauge**

10. Where is the air fuel mixture compressed in the two stroke petrol engine?

- A) Combustion chamber  
B) Transfer port  
C) Exhaust port  
D) Intake port

**Answer: A) Combustion chamber**

11. How can identify a four stroke engine?

- A) Valves  
B) Passages  
C) Cavities  
D) Ports

**Answer: A) Valves**

12. Which device converts mechanical energy into pneumatic energy?

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

**Answer: D) Compressor**

13. What is the use of ball pein hammer head?

- A) Stamp the specifications  
B) Strike the metal  
C) Spread the metal In all direction  
D) Strike soft metal

**Answer: C) Spread the metal In all direction**

14. Which law is applied in hydraulic brake system?

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

**Answer: A) Pascal's law**

15. What is brake horse power?

- A) Power available at the cylinder  
B) Power available at the wheels  
C) Power available at the gear box  
D) Power available at fly wheel

**Answer: D) Power available at fly wheel**

16. How the screw driver is specified?

- A) Thickness and length      B) Length of blade and width of tip  
C) Width and diameter of the edge      D) Shape and length

**Answer: B) Length of blade and width of tip**

**17.** Which type of chisel used to remove excess metal from welded joint?

- A) Cross cut chisel      B) Diamond point chisel  
C) Flat chisel      D) Half round chisel

**Answer: C) Flat chisel**

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

- A) Combustion      B) Super charging  
C) Intaking      D) Scavenging

**Answer: D) Scavenging**

**19.** What is the stroke length of the engine if its throw of the crankshaft is 40 mm?

- A) 40 mm      B) 60 mm  
C) 20 mm      D) 80 mm

**Answer: D) 80 mm**

**20.** What is the specific gravity of fully charged battery?

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

**Answer: B) 1.260 - 1.280**

**21.** Which hand tool used for circular cut in sheet metal work?

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

**Answer: C) Bend snip**

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

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

**Answer: A) Air service unit**

**23.** What is the specific gravity reading range of half charged battery?

- A) 1.230 - 1.260      B) 1.260 - 1.280  
C) 1.170 - 1.200      D) 1.200 - 1.230

**Answer: D) 1.200 - 1.230**

**24.** Which part of engine can be measured by dial gauge?

- A) Piston      B) Crank pin  
C) Gudgeon pin      D) Cylinder bore

**Answer: D) Cylinder bore**

**25.** Which acid is used in the lead acid Battery?

- A) Hydro bromic acid      B) Nitric acid  
C) Hydro chloric acid      D) Sulphuric acid

**Answer: D) Sulphuric acid**

**26.** Which causes the air enter into cylinder?

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

**Answer: B) Engine vacuum**

**27.** What is the purpose of angle plate?

- A) Marking      B) Grinding  
C) Machining      D) Polishing

**Answer: A) Marking**

**28.** What is the name of beveled graduated sleeve of outside micro meter?

- A) Spindle      B) Barrel  
C) Thimble      D) Anvil

**Answer: C) Thimble**

**29.** Which electronic component is used as a solid state switch?

- A) Resistor      B) Inductor  
C) Capacitor      D) Transistor

**Answer: D) Transistor**

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

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

**Answer: C) Gear meshing**

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

- A) Isothermal      B) Diesel Cycle  
C) Constant pressure      D) Constant volume

**Answer: B) Diesel Cycle**

**32.** What is the power flow of pneumatic system?

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

**Answer: A) Compressor - Control valve - Actuator**

**33.** What is the colour of positive plates in the charged lead - acid - battery?

- A) White      B) Grey  
C) Black      D) Brown

**Answer: D) Brown**

34. Which engine has more length?

- A) Radial engine
- B) 'V' engine
- C) Opposed engine
- D) Inline engine

**Answer: C) Opposed engine**

35. Which screw driver is used in blind space?

- A) Offset screw driver
- B) Ratchet screw driver
- C) Stumpy screw driver
- D) Philips screw driver

**Answer: A) Offset screw driver**

36. Which of the following fuel quality determines fuel to flow?

- A) Viscosity
- B) Cetane number
- C) Volatility
- D) Octane number

**Answer: A) Viscosity**

37. Which engine has fuel injection pump?

- A) CRDI engine
- B) Petrol engine
- C) Diesel engine
- D) MPFI engine

**Answer: C) Diesel engine**

38. How the semi conductor material can be identified with atomic structure?

- A) Five electrons in the outer most orbit
- B) Two electrons in the outer most orbit
- C) Four electrons in the outer most orbit
- D) Three electrons in the outer most orbit

**Answer: C) Four electrons in the outer most orbit**

39. What is the reason for fuse blown out in an electrical circuit?

- A) Open circuit
- B) Short circuit
- C) Parallel circuit
- D) Series circuit

**Answer: B) Short circuit**

40. How the number of positive and negative plates are compared in a lead acid Battery?

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

**Answer: B) Negative plate is one more than positive plates**

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

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

**Answer: D) Spur gear**

42. Which valve safe guards the hydraulics jack?

- A) Shut off valve
- B) Non return valve 2

- C) Relief valve
- D) Non return valve 1

**Answer: C) Relief valve**

43. 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

**Answer: B) Defective unloader valve**

44. Which is the semi conductor materials?

- A) Germanium and silicon
- B) Aluminium and antimony
- C) Gallium and indium
- D) Arsenic and boron

**Answer: A) Germanium and silicon**

45. How is the Battery capacity expressed?

- A) Ampere - hour rating
- B) Voltage rating
- C) Voltage - hour rating
- D) Ampere rating

**Answer: A) Ampere - hour rating**

46. Which component is used to measure the engine coolant temperature?

- A) Diode
- B) Thermistor
- C) Resistor
- D) Transistor

**Answer: B) Thermistor**

47. Which metal tube is used for single thickness flare?

- A) Brass
- B) Bronze
- C) Aluminium
- D) Copper

**Answer: D) Copper**

48. What is the angle of throw for 4 cylinder engine?

- A) 120 Degree
- B) 180 Degree
- C) 90 Degree
- D) 60 Degree

**Answer: B) 180 Degree**

49. What is the purpose of colour code in cables?

- A) Easy identification of each circuit
- B) Colour refers the current rating
- C) Colour refers the voltage rating
- D) Refers the size of the wire

**Answer: A) Easy identification of each circuit**

50. What is heat?

- A) Velocity
- B) Torque
- C) Energy
- D) Force

**Answer: C) Energy**

51. Why suction tube in the tank is raised above?

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

**Answer: D) To avoid suction of water in fuel**

**52.** Which spanner used for zero setting in outside micrometer?

- A) Adjustable spanner
- B) Double end spanner
- C) Ring spanner
- D) Hooks spanner

**Answer: D) Hooks spanner**

**53.** Which instrument is used to check the run-out of crankshaft journals?

- A) Vernier gauge
- B) Dial test indicator
- C) Bore dial gauge
- D) Telescopic gauge

**Answer: B) Dial test indicator**

**54.** Which part operates the brake shoe in the hydraulic brake system?

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

**Answer: C) Wheel cylinder**

**55.** How can identify a two stroke engine?

- A) Ports
- B) Valves
- C) Passages
- D) Cavities

**Answer: A) Ports**

**56.** Which is the power source of pneumatic system?

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

**Answer: D) Air Compressor**

**57.** Which service equipment is used to lift a car?

- A) Arbor press
- B) Hydraulic hoist
- C) Hydraulic valve
- D) Hydraulic press

**Answer: B) Hydraulic hoist**

**58.** Which device used to step up the voltage in the spark ignition system?

- A) Ignition coil
- B) High Tension Cable
- C) Condenser
- D) Spark plug

**Answer: A) Ignition coil**

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

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

**Answer: A) Crescent-shaped spacer**

**60.** What is the purpose of valve in AC fuel pump?

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

**Answer: C) Allow the fuel to suck and deliver**

**61.** Which instrument is used to measure the electrical resistance?

- A) Wattmeter
- B) Ohmmeter
- C) Ammeter
- D) Voltmeter

**Answer: B) Ohmmeter**

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

- A) Efficiency
- B) Cycle
- C) Stroke
- D) Stroke

**Answer: B) Cycle**

**63.** What is flaring?

- A) Increasing the length of a tube
- B) Decreasing the diameter of a tube
- C) Decreasing the length of a tube
- D) Increasing the diameter of a tube end

**Answer: D) Increasing the diameter of a tube end**

**64.** Which device converts hydraulic energy into mechanical energy?

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

**Answer: D) Actuator**

**65.** Which gauge is used to check the inflation of tyre?

- A) Pressure gauge
- B) Vacuum gauge
- C) Wire gauge
- D) Feeler gauge

**Answer: A) Pressure gauge**

**66.** What is the specification of 6J x 15?

- A) Vehicle size
- B) Wheel rim size
- C) Engine size
- D) Tyre size

**Answer: B) Wheel rim size**

**67.** Which type of the circuit leads to hazard effect?

- A) Short circuit
- B) Series circuit
- C) Open circuit
- D) Parallel circuit

**Answer: A) Short circuit**

**68.** What is the purpose of the cross pein in the hammer?

- A) Fix the handle
- B) Spread the metal in one direction
- C) Strike the metal in all direction
- D) Strike the metal

**Answer: B) Spread the metal in one direction**

**69.** Where the emulsion tube is provided in solex carburetor?

- A) Idle jet
- B) Cold starter

- C) Main jet                      D) Choke

**Answer: C) Main jet**

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

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

**Answer: B) Air service unit**

**71.** Which is the Ohm's Mathematical Expression?

- A)  $I=(V/R)$                       B)  $R=(I/V)$   
C)  $I=(R/V)$                       D)  $V=(I/R)$

**Answer: A)  $I=(V/R)$**

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

- A) 180 to 280 psi                  B) 400 to 550 psi  
C) 90 to 160 psi                  D) 290 to 390 psi

**Answer: B) 400 to 550 psi**

**73.** Which cable is the thickest used in the automobile wiring?

- A) Head light cable                B) Starter motor cable  
C) Wiper motor cable              D) Horn cable

**Answer: B) Starter motor cable**

**74.** How many flywheel rotation requeries to compelet one cycle in two stroke engine?

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

**Answer: D) One**

**75.** Which association of india is playing crucial role in less pollution?

- A) AAI (Automobile Association of India)              B) ARAI (Automotive research association of India)  
C) AASI (Automobile Association if South India)              D) AIA (Automotive industry Association)

**Answer: B) ARAI (Automotive research association of India)**

**76.** Which is used for marking and setting of work?

- A) Bench vice                      B) Marking table  
C) V- Block                         D) Surface plate

**Answer: C) V- Block**

**77.** How the amount of work done in a specification is called?

- A) Cycle                              B) Stroke length  
C) Power                              D) Torque

**Answer: C) Power**

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

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

**Answer: D) Two**

**79.** What is the purpose of accelerating pump circuit?

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

**Answer: C) Provides extra fuel during pick up speed**

**80.** Which digit indicate the engine type in 17 digit of win number?

- A) 8 digit                              B) 3 digit  
C) 2 digit                              D) 5 digit

**Answer: A) 8 digit**

**81.** Which shell electrons has least energy?

- A) N shell electron                B) M shell electron  
C) K shell electron                D) L shell electron

**Answer: C) K shell electron**

**82.** Which ministry of India regulate the motor vehicle activity?

- A) Minister of rural and development              B) Minister of road transport and highways  
C) Minister of defence              D) Minister of finance

**Answer: B) Minister of road transport and highways**

**83.** What is the material of negative plate in the lead acid Battery?

- A) Tin                                  B) Lead peroxide  
C) Spongy lead                      D) Antimony

**Answer: C) Spongy lead**

**84.** Which material is required to make integrated circuit chips?

- A) steel                                B) copper  
C) silicon                              D) zinc

**Answer: C) silicon**

**85.** Which valve regulate the flow rate in hydraulic system?

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

**Answer: B) Delivery**

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

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

**Answer: D) Continuously allow the air to the atmosphere**

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

- A) 09:01
- B) 11:01
- C) 10:01
- D) 08:01

**Answer: C) 10:01**

**88.** What is the energy conversion of battery during discharge?

- A) Electrical energy into chemical energy
- B) Chemical energy into electrical energy
- C) Electrical energy into mechanical energy
- D) Electrical energy into heat energy

**Answer: B) Chemical energy into electrical energy**

**89.** Which measuring gauge needs to be set up to a fixed dimension before use?

- A) Depth gauge
- B) Vernier dial gauge
- C) Dial bore gauge
- D) Dial test indicator

**Answer: C) Dial bore gauge**

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

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

**Answer: A) Opposite direction**

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

- A)  $R = R1 \times R2$
- B)  $R = R1 + R2$
- C)  $R = R1/R2$
- D)  $R = R1 ? R2$

**Answer: B)  $R = R1 + R2$**

**92.** What is the purpose of half round chisel?

- A) Cut keyways
- B) Cut curved grooves
- C) Squaring metal at corners
- D) Cut excess metal

**Answer: B) Cut curved grooves**

**93.** What is the use of Ohmmeter in an electrical circuit?

- A) Measure the resistance
- B) Measure the voltage
- C) Measure the current
- D) Measure the power

**Answer: A) Measure the resistance**

**94.** How many cells are in the 12V Battery?

- A) 12 cells
- B) 9 cells
- C) 6 cells
- D) 2 cells

**Answer: C) 6 cells**

**95.** Which is the engine having cylinders in 180 Degree?

- A) Inline engine
- B) Opposed engine

- C) Radial engine
- D) V- engine

**Answer: B) Opposed engine**

**96.** 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

**Answer: B) Transmit power**

**97.** Which of the following fuel quality determines to evaporate?

- A) Octane number
- B) Volatility
- C) Cetane number
- D) Viscosity

**Answer: B) Volatility**

**98.** How the lead acid Battery is classified?

- A) Secondary cell
- B) Dry cell
- C) Primary cell
- D) Alkaline cell

**Answer: A) Secondary cell**

**99.** Which is the starting system used in heavy vehicles?

- A) Gasoline engine cranking
- B) Hand cranking
- C) Compressed air cranking
- D) Electric motor cranking

**Answer: D) Electric motor cranking**

**100.** What is the working cycle of compression ignition engine?

- A) Otto cycle
- B) Diesel cycle
- C) Rankin cycle
- D) Sterling cycle

**Answer: B) Diesel cycle**

**101.** How the hammers are specified?

- A) Metal and weight
- B) Metal and shape
- C) Weight and shape
- D) Size and shape

**Answer: C) Weight and shape**

**102.** Which one is the indirect measuring instrument?

- A) Outside micrometer
- B) Inside caliper
- C) Inside micrometer
- D) Steel rule

**Answer: B) Inside caliper**

**103.** When did first car rolled in the street of Calcutta?

- A) 1950
- B) 1887
- C) 1810
- D) 1910

**Answer: B) 1887**

**104.** How many crank shaft rotation required to open exhaust valve one time in four stoke engine?

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

**Answer: B) Two**

105. What is indicated horse power?

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

**Answer: B) Power developed in the cylinder**

106. Which engine has carburetor?

- A) Mineral oil
- B) Diesel
- C) Petrol
- D) Kerosene

**Answer: C) Petrol**

107. Which plier used for bending narrow strips of thin metal sheet?

- A) Flat nose plier
- B) Slip joint plier
- C) Internal circlip plier
- D) Round nose plier

**Answer: A) Flat nose plier**

108. Which precision instrument used for taking external, internal and depth measurement?

- A) Vernier caliper
- B) Depth micrometer
- C) Outside micrometer
- D) Inside micrometer

**Answer: A) Vernier caliper**

109. A cycle consisting of one constant pressure, one constant volume and two isentropic processes is known as

- A) Constant volume
- B) Diesel Cycle
- C) Constant pressure
- D) Isothermal

**Answer: B) Diesel Cycle**

110. Which refers the size of hexagonal Allen key?

- A) Size of the diagonal
- B) Size across the flat
- C) Size of the radius
- D) Size of the diameter

**Answer: B) Size across the flat**

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

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

**Answer: B) Brake chamber**

112. What is the volume of the space above the piston at TDC?

- A) Swept volume
- B) Total volume
- C) Clearance volume
- D) Displace volume

**Answer: C) Clearance volume**

113. Which law state that 'The current is directly proportional to the voltage and inversely proportional to the resistance'?

- A) Newton's Law
- B) Boyle's Law
- C) Ohm's Law
- D) Hook's Law

**Answer: C) Ohm's Law**

114. Which instrument is used to check the continuity of the field coils of DC motor?

- A) Ohmmeter
- B) Voltmeter
- C) Wattmeter
- D) Ammeter

**Answer: A) Ohmmeter**

115. What type of resistor is used in the vehicle flasher unit?

- A) Ballast resistor
- B) Film resistor
- C) Printed resistor
- D) Integrated resistor

**Answer: A) Ballast resistor**

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

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

**Answer: B) Master cylinder**

117. Which type of brake used in heavy vehicle parking?

- A) Pneumatic brake
- B) Mechanical
- C) Hydraulic
- D) Electrical brake

**Answer: B) Mechanical**

118. How the ports are opened and closed in two stroke engine?

- A) Movement of valve
- B) Movement piston pin
- C) Movement of piston
- D) Movement of Rocker arm

**Answer: C) Movement of piston**

119. What is the smallest reading of vernier caliper?

- A) Tolerance
- B) Least count
- C) Allowance
- D) Deviation

**Answer: B) Least count**

120. What is the energy conversion of battery during charging?

- A) Electrical energy into chemical energy
- B) Electrical energy into mechanical energy
- C) Electrical energy into heat energy
- D) Chemical energy into electrical energy

**Answer: A) Electrical energy into chemical energy**

121. Which is a temperature sensitive resistor?

- A) Thyristor
- B) Diode
- C) Thermistor
- D) Transistor

**Answer: C) Thermistor**

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

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

**Answer: D) Plunger pump**

**123.** Which device have the ability to store electrical charge?

- A) Capacitor
- B) Resistor
- C) Conductor
- D) Insulator

**Answer: A) Capacitor**

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

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

**Answer: C) Shut of valve**

**125.** Which tool used to tighten the nuts and bolts at recommended tightness?

- A) Torque wrench
- B) Stud wrench
- C) Adjustable wrench
- D) Pipe wrench

**Answer: A) Torque wrench**

**126.** What are the two instruments used to measure the warpage of the fly wheel?

- A) Knife, wooden blank
- B) Wooden plank, metal shim
- C) Steel rule, metal shim
- D) Straight edge, feeler gauge

**Answer: D) Straight edge, feeler gauge**

**127.** What is the formula for Frictional horse power (FHP)?

- A) BHP / IHP
- B) IHP + BHP
- C) IHP - BHP
- D) IHP / BHP

**Answer: C) IHP - BHP**

**128.** Which equipment used for quick inspection under chassis of a car?

- A) Screw jack
- B) Trolley jack
- C) Two post hoist
- D) Stand

**Answer: B) Trolley jack**

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

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

**Answer: C) Carburetor**

**130.** Which instrument is used to check the right angle?

- A) Spring Joint caliper
- B) Firm joint caliper
- C) Try square
- D) Steel rule

**Answer: C) Try square**

**131.** What is the working principle of dial test indicator?

A) Leverage motion

B) Linear motion into reciprocating motion

C) Spring motion

D) Linear motion into rotary motion

**Answer: D) Linear motion into rotary motion**

**132.** Which is used to determine the stroke of an engine?

- A) Dia of piston
- B) Length of connecting rod
- C) Throw
- D) Cycle

**Answer: C) Throw**

**133.** How the AC mechanical pump's fuel delivery pressure is determined?

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

**Answer: C) Maximum stroke of diaphragm**

**134.** Which instrument is prohibited to connect with live wire?

- A) Voltmeter
- B) Ammeter
- C) Wattmeter
- D) Ohmmeter

**Answer: D) Ohmmeter**

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

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

**Answer: B) Two times**

**136.** What is the permissible voltage drop in the electrical circuit?

- A) 0.4 V
- B) 0.2 V
- C) 0.1 V
- D) 0.3 V

**Answer: B) 0.2 V**

**137.** How electrons move in a conductor?

- A) Voltage difference
- B) Resistance
- C) Conductance
- D) Current

**Answer: A) Voltage difference**

**138.** 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

**Answer: B) Pascal's law**

**139.** Which of the following fuel quality determines burning property of diesel?

- A) Volatility
- B) Cetane number
- C) Octane number
- D) Viscosity

**Answer: B) Cetane number**

**140.** Which valve save the pneumatic brake components against damage?

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

**Answer: B) Unloader valve**

**141.** What is the use of ratchet stop in out side micro meter?

- A) Prevent excessive pressure
- B) Prevent sliding
- C) Prevent speed
- D) Prevent load

**Answer: A) Prevent excessive pressure**

**142.** Which of the following fuel quality determines burning property of petrol?

- A) Octane number
- B) Viscosity
- C) Cetane number
- D) Volatility

**Answer: A) Octane number**

**143.** Which measure the liquid's resistance of flow?

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

**Answer: C) Viscosity**

**144.** When the valve clearance to be adjusted?

- A) Just opened
- B) Partially closed
- C) Fully closed
- D) Fully opened

**Answer: A) Just opened**

**145.** Which is the engine called as constant volume cycle?

- A) S.I engine
- B) C.I engine
- C) Turbine engine
- D) Steam engine

**Answer: A) S.I engine**

**146.** What is the purpose of throttle valve in the carburetor?

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

**Answer: C) Controls air fuel mixture into the engine**

**147.** Which instrument used to check the piston ring end gap?

- A) Pitch gauge
- B) Feeler gauge
- C) Vernier gauge
- D) Telescopic gauge

**Answer: B) Feeler gauge**

**148.** What is the purpose of needle valve in carburetor?

- A) Always holds correct level of fuel
- B) Excess supply of fuel at idle

- C) Controls the air flow of the engine
- D) Decrease the fuel pressure

**Answer: A) Always holds correct level of fuel**

**149.** What does number 25 in the cable size (25/0.012) indicate?

- A) Number of the strand
- B) Diameter of the strand
- C) Length of the strand
- D) Thickness of the cable

**Answer: A) Number of the strand**

**150.** Which type of the circuit has an infinite resistance?

- A) Open circuit
- B) Series closed circuit
- C) Parallel closed circuit
- D) Short circuit

**Answer: A) Open circuit**

**151.** What is the advantage of free maintenance sealed battery?

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

**Answer: A) No need for check and top up distilled water.**

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

- A) 90 Ampere hour
- B) 100 Ampere hour
- C) 80 Ampere hour
- D) 110 Ampere hour

**Answer: B) 100 Ampere hour**

**153.** What is the mechanical efficiency of an engine?

- A)  $(FHP/BHP) \times 100$
- B)  $(BHP/IHP) \times 100$
- C)  $(BHP/FHP) \times 100$
- D)  $(IHP/BHP) \times 100$

**Answer: B)  $(BHP/IHP) \times 100$**

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

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

**Answer: A) Two**

**155.** What type of emf is proceduced if the conductor moved and cut the magnetic fied?

- A) Dynamically induced emf
- B) Statistically induced emf
- C) Electro-magnetic induced emf
- D) Electro-chemical induced emf

**Answer: A) Dynamically induced emf**

**156.** What is the working media in pneumatic system?

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

**Answer: A) Air**

