

Duration: 150 Mins

Total Marks: 156

Q.ID: ITISKILL2267CY

1. What is the purpose of throttle valve in the carburetor?

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

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

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

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

**Answer: C) Dynamically induced emf**

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

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

**Answer: A) Delivery**

4. What is the specific gravity of fully charged battery?

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

**Answer: D) 1.260 - 1.280**

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

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

**Answer: D) Two**

6. How is the Battery capacity expressed?

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

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

7. What is the working principle of dial test indicator?

- A) Linear motion into reciprocating motion  
 B) Leverage motion  
 C) Spring motion  
 D) Linear motion into rotary motion

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

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

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

**Answer: B) 80 mm**

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

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

**Answer: C) Plunger pump**

10. What is flaring?

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

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

11. Which shell electrons has least energy?

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

**Answer: B) K shell electron**

12. 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

**Answer: C) Movement of piston**

13. Which valve safe guards the hydraulics jack?

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

**Answer: A) Relief valve**

14. Which engine has carburetor?

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

**Answer: C) Petrol**

15. What is brake horse power?

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

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

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

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

**Answer: A) Gear meshing**

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

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

**Answer: B) Spur gear**

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

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

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

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

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

**Answer: B) Carburetor**

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

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

**Answer: B) Shut of valve**

21. Which is the power source of pneumatic system?

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

**Answer: A) Air Compressor**

22. Which spanner used for zero setting in outside micrometer?

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

**Answer: D) Hooks spanner**

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

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

**Answer: D) Dial test indicator**

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

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

**Answer: A) Short circuit**

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

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

**Answer: B) Flat chisel**

26. Which type of the circuit has an infinite resistance?

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

**Answer: B) Open circuit**

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

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

**Answer: D) Ohmmeter**

28. Which device converts mechanical energy into pneumatic energy?

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

**Answer: C) Compressor**

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

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

**Answer: B) Ignition coil**

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

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

**Answer: D) Feeler gauge**

31. 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) Positive plates is one more than negative plates
- C) Negative plate is one less than positive plate
- D) Negative plate is one more than positive plates

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

32. What is the permissible voltage drop in the electrical circuit?

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

**Answer: A) 0.2 V**

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

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

**Answer: B) Air service unit**

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

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

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

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

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

**Answer: C) Dial bore gauge**

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

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

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

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

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

**Answer: A) Prevent excessive pressure**

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

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

**Answer: A) Volatility**

**39.** 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) Continuously allow the air to the atmosphere                      D) Maintain the required air pressure

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

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

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

**Answer: D) Swivel socket spanner**

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

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

**Answer: D) Master cylinder**

**42.** Which of the following fuel quality determines fuel to flow?

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

**Answer: D) Viscosity**

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

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

**Answer: C) Power**

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

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

**Answer: B) 6 cells**

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

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

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

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

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

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

**47.** What is the material of possitive plate in the lead acid Battery?

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

**Answer: C) Lead peroxide**

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

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

**Answer: A) 180 Degree**

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

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

**Answer: B) Actuator**

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

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

**Answer: A) Brake chamber**

51. Which instrument is used to measure the electrical resistance?

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

**Answer: C) Ohmmeter**

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

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

**Answer: D) Multi meter**

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

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

**Answer: A) Opposite direction**

54. 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

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

55. What is the purpose of the cross pein in the hammer?

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

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

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

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

**Answer: A) Cylinder bore**

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

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

**Answer: B) 0.5 mm**

58. Which is the semi conductor materials?

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

**Answer: D) Germanium and silicon**

59. Which type of the circuit leads to hazard effect?

- A) Series circuit
- B) Open circuit

- C) Parallel circuit
- D) Short circuit

**Answer: D) Short circuit**

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

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

**Answer: D) Bend snip**

61. How electrons move in a conductor?

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

**Answer: A) Voltage difference**

62. Which is the Ohm's Mathematical Expression?

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

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

63. When the valve clearance to be adjusted?

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

**Answer: D) Just opened**

64. Which engine has more length?

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

**Answer: B) Opposed engine**

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

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

**Answer: C) Trolley jack**

66. 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**

67. 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**

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

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

**Answer: A) Diesel Cycle**

69. What is the purpose of accelerating pump circuit?

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

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

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

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

**Answer: B) Unloader valve**

71. How many flywheel rotation requiries to compelet one cycle in two stroke engine?

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

**Answer: D) One**

72. How the hammers are specified?

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

**Answer: A) Weight and shape**

73. 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**

74. Which is the starting system used in heavy vehicles?

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

**Answer: D) Electric motor cranking**

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

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

**Answer: C) Mechanical**

76. 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

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

77. How can identify a two stroke engine?

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

**Answer: C) Ports**

78. Which is used for marking and setting of work?

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

**Answer: C) V- Block**

79. Which acid is used in the lead acid Battery?

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

**Answer: B) Sulphuric acid**

80. What is the energy conversion of battery during discharge?

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

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

81. Which instrument is prohibited to connect with live wire?

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

**Answer: A) Ohmmeter**

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

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

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

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

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

**Answer: B) Air service unit**

84. What is the purpose of angle plate?

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

**Answer: B) Marking**

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

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

**Answer: A) Flat nose plier**

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

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

**Answer: A) Copper**

87. Where the emulsion tube is provided in solex carburetor?

- A) Idle jet
- B) Choke
- C) Cold starter
- D) Main jet

**Answer: D) Main jet**

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

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

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

89. What is heat?

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

**Answer: B) Energy**

90. Which is the compression pressure of C.I engine?

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

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

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

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

**Answer: D) Pressure gauge**

92. Which material is required to make integrated circuit chips?

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

**Answer: C) silicon**

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

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

**Answer: D) Vernier caliper**

94. What is the reason for pneumatic brake failure?

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

**Answer: A) Defective unloader valve**

95. What is the purpose of needle valve in carburetor?

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

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

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

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

**Answer: D) Thimble**

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

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

**Answer: B) Diesel Cycle**

98. Which screw driver is used in blind space?

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

**Answer: C) Offset screw driver**

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

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

**Answer: D) Transistor**

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

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

**Answer: C) Octane number**

101. 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)  $R = R1 \cdot R2$
- D)  $R = R1/R2$

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

102. 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**

103. Which service equipment is used to lift a car?

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

**Answer: A) Hydraulic hoist**

104. How can identify a four stroke engine?

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

**Answer: C) Valves**

**105.** Which gauge used to check leakage of inlet manifold?

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

**Answer: A) Vacuum gauge**

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

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

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

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

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

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

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

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

**Answer: D) Spongy lead**

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

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

**Answer: B) Diesel cycle**

**110.** Which engine has fuel injection pump?

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

**Answer: C) Diesel engine**

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

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

**Answer: D) Cut curved grooves**

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

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

**Answer: A) Measure the resistance**

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

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

**Answer: C) 1887**

**114.** Which gauge used to check the spark plug gap?

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

**Answer: A) Feeler gauge**

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

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

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

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

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

**Answer: A) Wheel rim size**

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

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

**Answer: B) Two**

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

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

**Answer: C) Secondary cell**

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

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

**Answer: B) 100 Ampere hour**

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

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

**Answer: C) 8 digit**

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

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

**Answer: D) 10:01**

**122.** What is the function of hydraulic oil in hydraulic system?

- A) Increase the heat
- B) Transmit power

C) Increase the volume      D) Reduce the pressure

**Answer: B) Transmit power**

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

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

**Answer: B) IHP - BHP**

**124.** Which is a temperature sensitive resistor?

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

**Answer: C) Thermistor**

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

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

**Answer: B) Torque wrench**

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

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

**Answer: A) Air**

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

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

**Answer: D) Brown**

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

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

**Answer: C) Starter motor cable**

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

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

**Answer: B) 1.200 - 1.230**

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

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

**Answer: A) Thermistor**

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

- A) Steel rule      B) Try square

C) Firm joint caliper

D) Spring Joint caliper

**Answer: B) Try square**

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

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

**Answer: A) Cetane number**

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

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

**Answer: A) 1980**

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

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

**Answer: A) Two**

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

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

**Answer: A) Viscosity**

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

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

**Answer: C) Two times**

**137.** 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

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

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

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

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

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

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

**Answer: A) Throw**

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

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

**Answer: D) Engine vacuum**

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

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

**Answer: B) Opposed engine**

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

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

**Answer: A) Inside caliper**

**143.** Why suction tube in the tank is raised above?

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

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

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

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

**Answer: C) Cycle**

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

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

**Answer: B) Wheel cylinder**

**146.** How the screw driver is specified?

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

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

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

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

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

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

- A) Combustion chamber      B) Transfer port

- C) Intake port      D) Exhaust port

**Answer: A) Combustion chamber**

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

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

**Answer: A) Capacitor**

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

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

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

**151.** Which is the power developed in an engine?

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

**Answer: B) IHP**

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

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

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

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

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

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

**154.** What is the smallest reading of vernier caliper?

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

**Answer: B) Least count**

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

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

**Answer: A) Scavenging**

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

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

**Answer: B) Ballast resistor**