

ITI Quiz - 10-Jun-2026

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Q. ID: ITISKILL2805ZO

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Answer Key

Duration: 30 Mins

Total Marks: 432

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1. Which type of energy conservation opportunity involves stopping of water leakage points?

- A) Major energy conservation opportunities
- B) Medium energy conservation opportunities
- C) Extra major energy conservation
- D) Minor energy conservation opportunities

Answer: D) Minor energy conservation opportunities

2. Which taper used in the drilling machine?

- A) Moarse taper
- B) Pin taper
- C) Metric taper
- D) Brown and sharp taper

Answer: A) Moarse taper

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

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

Answer: A) 1.200 - 1.230

4. What is the property allows a bearing to with stand impact load for a reasonable time?

- A) Toughness
- B) Tensile strength
- C) Hardness
- D) Fatigue strength

Answer: D) Fatigue strength

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

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

Answer: B) Flat chisel

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

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

Answer: D) Pascal's law

7. What is the stationary part of an alternator?

- A) Slip rings
- B) Stator
- C) Pulley
- D) Rotor

Answer: B) Stator

8. Which form is used for declaration of physical fitness in the motor vehicle act?

- A) Form 1A
- C) Form 1

- B) Form 20
- D) Form 9

Answer: C) Form 1

9. What is the overall length of a transport vehicle with rigid frame with two or more axles permitted by motor vehicle rules?

- A) 15 Mtrs
- C) 6 Mtrs

- B) 8 Mtrs
- D) 12 Mtrs

Answer: D) 12 Mtrs

10. Which form required for registration certificate?

- A) Form 29
- C) Form 26

- B) Form C.F.R.A
- D) Form 1A

Answer: C) Form 26

11. Which is the power developed in an engine?

- A) IHP
- C) RHP

- B) IHP
- D) BHP

Answer: A) IHP

12. Which one is the indirect measuring instrument?

- A) Inside caliper
- C) Inside micrometer

- B) Outside micrometer
- D) Steel rule

Answer: A) Inside caliper

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

- A) Increase the volume
- C) Increase the heat

- B) Transmit power
- D) Reduce the pressure

Answer: B) Transmit power

14. How the CRDI injectors pressure control valve operated?

- A) Hydraulic
- C) Electronically

- B) Mechanically
- D) Manually

Answer: C) Electronically

15. Which type of safety states 'Don't spill the fuel on work place'?

- A) General and machine safety
- C) Machine safety

- B) General safety
- D) Personal safety

Answer: B) General safety

16. Which is the process of fuel bleeding system?

- A) Pressurize the air
- B) Burn the air
- C) Pump the air
- D) Remove the air

Answer: D) Remove the air

17. Which engine is more hazardous?

- A) Turbine engine
- B) Diesel engine
- C) Petrol engine
- D) Steam engine

Answer: A) Turbine engine

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

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

Answer: C) Air service unit

19. Where is the turbocharger mounted?

- A) Inlet manifold
- B) Cylinder head
- C) Air filter
- D) Exhaust manifold

Answer: D) Exhaust manifold

20. Which type of material toxic may cause for lung cancer?

- A) Asbestos
- B) Wood
- C) Fiber
- D) Graphite

Answer: A) Asbestos

21. How the screw driver is specified?

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

Answer: A) Length of blade and width of tip

22. What is the purpose of catalytic converter?

- A) Control the temperature
- B) Control the noise
- C) Control the fuel consumption
- D) Control the emission

Answer: D) Control the emission

23. How many windings are provided in a solenoid switch?

- A) 5
- B) 3
- C) 4
- D) 2

Answer: D) 2

24. What is brake horse power?

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

Answer: B) Power available at fly wheel

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

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

Answer: C) V- Block

26. Which type of the tap wrench prevent damage to the taps?

- A) Torque wrench
- B) Tension wrench
- C) Solid wrench
- D) Pipe wrench

Answer: C) Solid wrench

27. Which types of cooling system the rate of cooling is very low?

- A) Thermo siphon system
- B) Forced feed system
- C) Pump circulation system
- D) Air cooling system

Answer: A) Thermo siphon system

28. Which part drives the oil pump?

- A) Crank Shaft
- B) Timing gears
- C) Cam Shaft
- D) Crank pulley

Answer: C) Cam Shaft

29. Which tool is used to measure the diameter of the crank shaft main journal?

- A) Outside micrometer
- B) Inside micrometer
- C) Three point internal micrometer
- D) Master ring gauge

Answer: A) Outside micrometer

30. What will be the result of improper injection timing?

- A) Low power generation
- B) Engine does not start
- C) High oil consumption
- D) High fuel consumption

Answer: B) Engine does not start

31. Which of the following fuel quality determines to evaporate?

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

Answer: B) Volatility

32. What is the result of more carbon deposit on the piston head?

- A) High fuel consumption
- B) Low power generation
- C) Engine noise
- D) Engine over heating

Answer: C) Engine noise

33. Which device changes carbon monoxide into carbon dioxide in the exhaust gas?

- A) Muffler
- B) Canister
- C) Exhaust gas regulator
- D) Catalytic converter

Answer: D) Catalytic converter

34. Which is the most preferred use of bush bearings?

- A) Crank shaft
- B) Connecting rods
- C) Oil pumps
- D) Fly wheel

Answer: D) Fly wheel

35. How many valves are used in radiator cap?

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

Answer: B) Two valves

36. Which is the three elements must be present for burning of any fire?

- A) Heat + Water + Oxygen
- B) Oxygen + Fuel + Paper
- C) Fuel + Heat + Oxygen
- D) Smoke + Fuel + Oxygen

Answer: C) Fuel + Heat + Oxygen

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

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

Answer: B) Lead peroxide

38. What is the power flow of pneumatic system?

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

Answer: D) Compressor - Control valve - Actuator

39. What is the reason pump does not suck the oil?

- A) Filter clogged
- B) Relief valve struck
- C) More backlash
- D) Less radial clearance

Answer: C) More backlash

40. Which is the semi conductor materials?

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

Answer: B) Germanium and silicon

41. Which ministry of India regulate the motor vehicle activity?

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

Answer: B) Minister of road transport and highways

42. Which type of engine has common rail direct fuel injection system?

- A) Wankle engine
- B) Diesel engine
- C) Steam engine
- D) Turbine engine

Answer: B) Diesel engine

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

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

Answer: C) Short circuit

44. How the hammers are specified?

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

Answer: C) Weight and shape

45. Which is a temperature sensitive resistor?

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

Answer: B) Thermistor

46. What is the procedure to be carried out if an electric shock victim unable to release his grip from the conductor?

- A) Cover all burns with a dry loose dressing
- B) Place the victim on one side with head down
- C) Ask a by stander to help you to move the
- D) Make sure the power is turned off

Answer: D) Make sure the power is turned off

47. Which type of lubrication system is used in two stroke engine?

- A) Dry sump lubrication
- B) Petrol-oil lubrication
- C) Splash lubrication
- D) Wet sump lubrication

Answer: B) Petrol-oil lubrication

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

- 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: D) Chemical energy into electrical energy

49. Which form is required to obtain temporary authorization of use of vehicle when the certificate of fitness expired?

- A) Form L.L.D
- B) Form C.F.R.A
- C) Form C.F Sub
- D) Form C.F.A

Answer: C) Form C.F Sub

50. What is the specification of 6J x 15?

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

Answer: D) Wheel rim size

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

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

Answer: A) Unloader valve

- A) Ignition coil B) Alternator
C) Dynamo D) Starting motor

Answer: B) Alternator

52. Which part connects the petrol engine inlet manifold?

- A) Carburetor B) Fuel pump
C) Air filter D) Injector

Answer: A) Carburetor

61. Which is transferring energy for the piston to crankshaft?

- A) Cam shaft B) Gudgeon pin
C) Connecting rod D) King pin

Answer: C) Connecting rod

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

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

Answer: A) Movement of piston

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

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

Answer: C) Open circuit

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

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

Answer: A) Maximum stroke of diaphragm

63. Where is the pressure discharge valve is fitted in CRDI fuel system?

- A) Fuel pump B) Fuel filter
C) Injectors D) Common rail

Answer: D) Common rail

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

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

Answer: D) Dial bore gauge

64. Which part is lubricated by splash lubrication system?

- A) Timing gears B) Cylinder wall
C) Crank pin D) Main journal

Answer: B) Cylinder wall

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

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

Answer: B) Cylinder bore

65. Which type of muffler produces anti noise without restricting exhaust flow?

- A) Electronic type B) Straight through type
C) Baffle type D) Reverse flow type

Answer: A) Electronic type

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

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

Answer: A) Shut of valve

66. Which device used to maintain the constant voltage in a charging circuit?

- A) Cut out regulator B) Field regulator
C) Current regulator D) Voltage regulator

Answer: D) Voltage regulator

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

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

Answer: C) Pressure gauge

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

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

Answer: A) 0.5 mm

59. Which component is related to exhaust system?

- A) Injection pump B) Air filter
C) Carburetor D) Muffler

Answer: D) Muffler

68. What is the class of gas burning fire?

- A) Class - D B) Class - C
C) Class - A D) Class - B

Answer: B) Class - C

60. Which device produce the AC current in a vehicle?

- A) Driven gear B) Drive gear

- C) Gear meshing D) Housing

Answer: C) Gear meshing

70. Which screw driver is used in blind space?

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

Answer: C) Offset screw driver

71. Which part of drill forms a cutting edge?

- A) Land B) Body
C) Point D) Flute

Answer: D) Flute

72. What is the effect of high sulphur content in fuel?

- A) Fungus in the cylinder walls B) Pitting in the engine parts
C) Corrosive Wear of engine parts D) In complete combustion

Answer: C) Corrosive Wear of engine parts

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

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

Answer: B) Air service unit

74. 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

Answer: B) Two

75. Which condition does a dynamo highly charge the battery?

- A) Low engine speed B) High engine torque
C) High engine speed D) Low engine torque

Answer: C) High engine speed

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

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

Answer: A) Two

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

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

Answer: D) Spread the metal In all direction

78. When do we use the hand priming pump?

- A) Engine is at full speed B) Engine is at idling speed
C) Engine is at rest D) Engine is at full load

Answer: C) Engine is at rest

79. Which fire extinguisher suitable for class ?C? fire?

- A) Dry powder fire extinguisher B) Water filled extinguisher
C) Foam filled extinguisher D) Carbon-di-oxide fire extinguisher

Answer: A) Dry powder fire extinguisher

80. Which causes the air enter into cylinder?

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

Answer: B) Engine vacuum

81. What is the working media in pneumatic system?

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

Answer: A) Air

82. Which device have the ability to store electrical charge?

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

Answer: D) Capacitor

83. Why form 9 is required for driving license in motor vehicle act?

- A) For no objection certificate B) To declare physical fitness
C) For renewal of driving licence D) To intimate loss to driving licence

Answer: C) For renewal of driving licence

84. Where form 30 is used in motor vehicle act?

- A) Notice of transfer of ownership of motor vehicle B) Issue of duplicate certification of registration
C) Report of transfer of ownership of motor vehicle D) Intimation of change of address

Answer: C) Report of transfer of ownership of motor vehicle

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

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

Answer: A) Measure the resistance

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

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

Answer: B) 400 to 550 psi

87. How can identify a two stroke engine?

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

Answer: B) Ports

88. Where the fuel feed pump of a diesel engine usually mounted?

- | | |
|------------------|------------------------|
| A) Fuel Filter | B) Fuel injection pump |
| C) Fuel injector | D) Fuel gallery |

Answer: B) Fuel injection pump

89. What is the reason for weak cutting edge of twist drill?

- | | |
|--------------------------------|---------------------------------|
| A) Lib angle is too small | B) Clearance angle is too small |
| C) Clearance angle is too high | D) Lib angle is too high |

Answer: C) Clearance angle is too high

90. Which measuring instrument used to check the fly wheel face out?

- | | |
|-----------------------|-------------------|
| A) Outside micrometer | B) Dial indicator |
| C) Compression gauge | D) Feeler gauge |

Answer: B) Dial indicator

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

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

Answer: C) Spread the metal in one direction

92. Which is develop diesel pressure in the CRDI engine?

- | | |
|-----------------------|--------------|
| A) High pressure pump | B) ECM |
| C) Fuel tank | D) Injection |

Answer: A) High pressure pump

93. 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

94. Where is connected the EVAP canister outlet?

- | | |
|-----------------------|-------------------|
| A) Catalyst converter | B) Fuel tank |
| C) Exhaust manifold | D) Intet manifold |

Answer: D) Intet manifold

95. Which gauge used to check the engine cylinder compression ?

- | | |
|----------------------|------------------------|
| A) Feeler gauge | B) Dial gauge |
| C) Compression gauge | D) Tyre pressure gauge |

Answer: C) Compression gauge

96. Where the exhaust system muffler is connected?

- | | |
|---|--|
| A) Between tail pipe and exhaust manifold | B) Between engine head and exhaust manifold |
| C) Between exhaust pipe and tail pipe | D) Between exhaust pipe and exhaust manifold |

Answer: C) Between exhaust pipe and tail pipe

97. Which device is used to hold straight shank drill?

- | | |
|-----------|----------|
| A) Socket | B) Stock |
| C) Sleeve | D) Chuck |

Answer: D) Chuck

98. What is the validity period for transport vehicle license?

- | | |
|-------------|------------|
| A) 5 Years | B) 3 Years |
| C) 10 Years | D) 8 Years |

Answer: B) 3 Years

99. Which instrument is used to check the right angle?

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

Answer: D) Try square

100. What is the advantage of free maintenance sealed battery?

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

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

101. Which is the major energy conservation opportunity?

- | | |
|----------------------------|--|
| A) Laps in housekeeping | B) Stopping of leakage |
| C) Replacement machineries | D) Replacement of house hold appliance |

Answer: C) Replacement machineries

102. What is the name of the angle between the cutting edges in a drill?

- | | |
|----------------|--------------------|
| A) Rake angle | B) Clearance angle |
| C) Point angle | D) Helix angle |

Answer: C) Point angle

103. Which mixture is used in radiator reverse flushing cleaning?

- | | |
|------------------------------------|---|
| A) Flushing water with coolant oil | B) Flushing water with air (gun) pressure |
| C) Flushing water with engine oil | D) Flushing water with soap oil |

Answer: B) Flushing water with air (gun) pressure

104. Which is the engine having cylinders in 180 Degree?

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

Answer: B) Opposed engine

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

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

Answer: D) To avoid suction of water in fuel

106. What will be the effect of clogged fuel tank vent hole?

- A) High fuel consumption B) Engine does not start
C) High oil consumption D) Engine over heating

Answer: B) Engine does not start

107. Which type of muffler is fitted with sensors and microphone ?

- A) Resonance type B) Electronic type
C) Reverse flow type D) Straight through type

Answer: B) Electronic type

108. Which personal protective equipment protect the dust?

- A) Apron B) Face shield
C) Mask D) Gloves

Answer: C) Mask

109. Which one is the properties of lubricant

- A) Oil viscosity should not be same in hot and cold condition B) Oil viscosity should be suit the operating conditions
C) Should develop foam D) Boiling temperature should be low

Answer: B) Oil viscosity should be suit the operating conditions

110. What is the cause of erratic running of engine?

- A) Clogged air cleaner B) Low compression pressure
C) Defective radiator pressure cap D) Water present in the fuel

Answer: D) Water present in the fuel

111. What kind of first aid care to be taken for a severely bleeding open wound?

- A) Apply pressure near wound to stop bleeding B) Allow wound to bleed
C) Pressure on the wound itself to stop bleeding and avoid infection D) Lower the wound area below the body

Answer: A) Apply pressure near wound to stop bleeding

112. Which part is connect the piston with crank pin?

- A) Cam Shaft B) Connecting rod
C) Crank Shaft D) Push rod

Answer: B) Connecting rod

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

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

Answer: C) 1887

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

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

Answer: D) Vernier caliper

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

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

Answer: A) Diesel Cycle

116. Which engine has fuel injection pump?

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

Answer: A) Diesel engine

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

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

Answer: B) Hooks spanner

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

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

Answer: B) Power

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

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

Answer: B) Combustion chamber

120. Which engine has more length?

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

Answer: C) Opposed engine

121. Which is the cause for lifting equipment failure?

- A) Under load
C) Oil change
B) Oil seal leak
D) Check oil level

Answer: B) Oil seal leak

122. What is the defects of air lock in the fuel system?

- A) erratic running of the engine
C) Continuous running of the engine
B) Hard running of the engine
D) Smooth running of the engine

Answer: A) erratic running of the engine

123. Which type of personal protective equipment used to protect eye?

- A) Goggles
C) Gloves
B) Cap
D) Mask

Answer: A) Goggles

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

- A) $R = R_1 \times R_2$
C) $R = R_1 + R_2$
B) $R = R_1/R_2$
D) $R = R_1 \div R_2$

Answer: C) $R = R_1 + R_2$

125. What is the reason for corrosion of bearing?

- A) Less clearance
C) Over heated
B) Water mixed with lubricant
D) Over loaded

Answer: B) Water mixed with lubricant

126. What is the cause of excessive loading?

- A) Bearing crush
C) Bearing spread
B) Fatigue failure
D) Bearing struck

Answer: B) Fatigue failure

127. Which action the spindle only move up and down in feed pump?

- A) pumping action
C) Partial action
B) Idling action
D) Normal action

Answer: B) Idling action

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

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

Answer: C) Brown

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

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

Answer: A) Ignition coil

130. Which part is used to pump the water in water pump?

- A) Bearing
C) Impeller
B) Pulley
D) Shaft

Answer: C) Impeller

131. Which part of alternator generate AC current in the stator coil?

- A) Slip ring end frame
C) Rotor assembly
B) Drive end frame
D) Current regulator

Answer: C) Rotor assembly

132. What is the unit of cutting speed?

- A) Meter per minute
C) Centimetre per second
B) Centimetre per minute
D) Meter per second

Answer: A) Meter per minute

133. Which is the cause for fire while refueling the hot engine?

- A) Cloth
C) Vapour
B) Paper
D) Leather

Answer: C) Vapour

134. Which part helps to increase the water boiling point in water cooling system?

- A) Radiator fins
C) Radiator hose
B) Radiator core tubes
D) Radiator cap

Answer: D) Radiator cap

135. Which type of vice is used to hold a job for drilling?

- A) Machine vice
C) Hand vice
B) Leg vice
D) Bench vice

Answer: A) Machine vice

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

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

Answer: B) Prevent excessive pressure

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

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

Answer: A) Continuously allow the air to the atmosphere

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

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

Answer: B) Main jet

139. How the lead acid Battery is classified?

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

Answer: A) Secondary cell

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

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

Answer: C) Feeler gauge

141. Which part connected in between inlet manifold and low pressure chamber of pneumatic governor?

- A) Vacuum tube
- B) Throttle lever
- C) Accelerator cable
- D) Stop lever cable

Answer: A) Vacuum tube

142. What is the validity period of the license to drive non transport vehicle?

- A) 22 Years
- B) 15 Years
- C) 10 Year
- D) 20 Years

Answer: D) 20 Years

143. Which tap in a set have 4 Degree chamfer at its end?

- A) Taper tap
- B) Bottoming tap
- C) Plug tap
- D) Intermediate tap

Answer: A) Taper tap

144. What is the purpose of metal fins in air cooling system?

- A) Supply the heat
- B) Reduce the heat
- C) Increase the heat
- D) Maintain the heat

Answer: B) Reduce the heat

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

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

Answer: A) Spongy lead

146. Which equipment is used in vehicle service tation to lift the vehicle for water wash?

- A) Screw jack
- B) Stand
- C) Crane
- D) Hoist

Answer: D) Hoist

147. Which winding have thick wire in solenoid switch?

- A) Field winding
- B) Hold-in winding
- C) Pull-in winding
- D) Armature winding

Answer: C) Pull-in winding

148. Which type of vehicle emission is measured in ?g/Km??

- A) Two wheeler only
- B) Heavy motor vehicles (HMV)
- C) Light motor vehicle (LMV) only
- D) Two wheeler and LMV

Answer: D) Two wheeler and LMV

149. What is the purpose of a radiator pressure cap?

- A) Release the excess pressure
- B) Retain the vacuum pressure
- C) Maintain the water temperature
- D) Retain the atmospheric pressure

Answer: A) Release the excess pressure

150. What is the major constituents of blow by gas?

- A) Hydro carbon
- B) CO₂
- C) CO
- D) NO_x

Answer: A) Hydro carbon

151. Where heat dissipation take place in cooling system?

- A) Radiator
- B) Fan
- C) Water jackets
- D) Water pump

Answer: A) Radiator

152. Which part connect the piston with connecting rod?

- A) Crank pin
- B) Piston pin
- C) Spilt pin
- D) Cotter pin

Answer: B) Piston pin

153. What is the purpose of water pump in cooling system?

- A) Force the water circulation
- B) Reduce the water pressure
- C) Increase the water temperature
- D) Flushing out the cooling system

Answer: A) Force the water circulation

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

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

Answer: D) 1980

155. What is the purpose of the muffler in the exhaust system?

- A) To reduce the heat
- B) To filter the exhaust gases
- C) To reduce the noise
- D) To reduce the vibration

Answer: C) To reduce the noise

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

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

Answer: B) Throw

157. What causes high fuel consumption?

- A) Clogged air cleaner
- B) Defective thermostat valve
- C) Less water level in the radiator
- D) Exhaust manifold clogged

Answer: A) Clogged air cleaner

158. How to define a vehicle constructed to carry more than 6 passengers but not more than 12 passengers?

- A) Light motor vehicle
- B) Contract carriage
- C) Maxi cab
- D) Goods carriage

Answer: C) Maxi cab

159. Which type of fuel is recommended for catalytic converter installed engines?

- A) High speed diesel
- B) Low speed diesel
- C) Unleaded petrol
- D) Leaded petrol

Answer: C) Unleaded petrol

160. Which tool is used to remove valve?

- A) Piston ring compressor
- B) Piston ring groover
- C) Piston ring expander
- D) Valve spring compressor

Answer: D) Valve spring compressor

161. When motor vehicle act came into force?

- A) 01-Jul-88
- B) 01-Jul-89
- C) 01-Apr-87
- D) 01-Aug-85

Answer: B) 01-Jul-89

162. Which is the proposed date of implementation of bharat stage - 5 in entire country?

- A) 1.4.2018
- B) 1.4.2019
- C) 1.4.2020
- D) 1.4.2025

Answer: C) 1.4.2020

163. Which is the instrument used to check the weariness of the commutator?

- A) Dial gauge
- B) Vernier caliper
- C) Multimeter
- D) Growler

Answer: B) Vernier caliper

164. Where the catalytic converters are used?

- A) Lubrication system
- B) Inlet system
- C) Exhaust system
- D) Fuel system

Answer: C) Exhaust system

165. What is the selection of a tap drill size?

- A) Major Diameter - Pitch
- B) Major Diameter x Pitch
- C) Major Diameter + Pitch
- D) Major Diameter / Pitch

Answer: A) Major Diameter - Pitch

166. Which is used to operate the over running clutch drive

pinion?

- A) Ignition switch
- B) Starter switch
- C) Solenoid switch
- D) Starter push switch

Answer: C) Solenoid switch

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

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

Answer: D) Easy identification of each circuit

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

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

Answer: D) Electric motor cranking

169. What will be the effect on the hole if worn out reamer is used?

- A) Undersize
- B) Normal size
- C) Oversize
- D) Correct size

Answer: A) Undersize

170. Which type of gloves used to avoid cuts and abrasion during material handling?

- A) Rubber gloves
- B) Leather gloves
- C) Polythene thin gloves
- D) Cotton gloves

Answer: B) Leather gloves

171. Which is the safety precaution to be adopted in handling diesel machine

- A) Use diesel engine with loose mounting
- B) Remove safeguard of rotating part
- C) Use oil/greasy hand to repair work
- D) Use correct viscosity oil

Answer: D) Use correct viscosity oil

172. How electrons move in a conductor?

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

Answer: B) Voltage difference

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

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

Answer: D) Feeler gauge

174. Which process improves the sealing between the mating parts?

- A) Grinding
- B) Lapping

C) Reaming

D) Filling

Answer: B) Lapping

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

A) Creating pressure

B) Allow the fuel to suck and deliver

C) Creating suction

D) Supply correct quantity of fuel

Answer: B) Allow the fuel to suck and deliver

176. What is the cause of water leakage in water pump?

A) Worn out seal

B) Worn out impeller

C) Worn out bearing

D) Worn out shaft

Answer: A) Worn out seal

177. What is the property of bearing helps to absorb dirt and metal particles?

A) Surface action

B) Embedability

C) Conformability

D) Thermal conductivity

Answer: B) Embedability

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

A) Sealing ring

B) Crescent-shaped spacer

C) Gears

D) Gasket

Answer: B) Crescent-shaped spacer

179. What is ovality of a crank shaft?

A) Difference in dia measured only at bottom

B) Difference in dia measured only at top

C) Difference in dia measured from top to bottom of a crank shaft outer dia

D) Difference in dia measured thrust to non thrust across dia

Answer: D) Difference in dia measured thrust to non thrust across dia

180. Which is connected with pison through piston pin?

A) Rocker arm

B) Connecting rod

C) Gudgeon pin

D) Cam shaft

Answer: B) Connecting rod

181. Which part of body, if bleeding profusely is considered serious and need professional attention?

A) Leg

B) Buttock

C) Wrist

D) Knee

Answer: C) Wrist

182. What is ABC in first aid?

A) Airway, Breathing, Circulation

B) Army, Branch, Calculate

C) Away, Breathing, Calculation

D) Aviation, Breathing, Cumin

Answer: A) Airway, Breathing, Circulation

183. What is the cause of low power generation?

A) Engine overheating

B) Low oil viscosity

C) High oil level

D) Improper tappet clearance

Answer: D) Improper tappet clearance

184. 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

185. Which is the operation cycle of turbine?

A) Brayton cycle

B) Diesel cycle

C) Auto cycle

D) Adiabatic cycle

Answer: A) Brayton cycle

186. Which type of oil used in the lifts and cranes?

A) Coconut oil

B) Hydraulic oil

C) Gingelly oil

D) Ground nut oil

Answer: B) Hydraulic oil

187. 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

188. Where the catalytic converter is fitted?

A) Between exhaust pipe and muffler

B) Between muffler and tail pipe

C) Between engine head and exhaust manifold

D) Between tail pipe and resonator pipe

Answer: A) Between exhaust pipe and muffler

189. Which is related to pneumatic system?

A) Compressed air

B) Pressurized water

C) Electric

D) Steam

Answer: A) Compressed air

190. Which is the most preferred use of taper roller bearings?

A) Differential and wheel hub

B) Connecting rods

C) Fly wheel and water pump

D) Gear boxes

Answer: A) Differential and wheel hub

191. How much pressure develop the CRDI- diesel engine pump?

A) 600 - 1000 bar

B) 200 - 600 bar

C) 100 - 200 bar

D) 1000 - 1600 bar

Answer: D) 1000 - 1600 bar

192. Which engine is not required separate cooling system?

- A) Diesel engine
- B) Petrol engine
- C) Turbine engine
- D) Marine engine

Answer: C) Turbine engine

193. 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) 110 Ampere hour
- D) 80 Ampere hour

Answer: B) 100 Ampere hour

194. What is the load taken by taper roller bearing?

- A) Thrust load
- B) Radial and axial load
- C) Radial load
- D) Axial and radial load

Answer: D) Axial and radial load

195. Which controls the EGR valve in modern vehicle?

- A) Engine vacuum controlled valve
- B) Linear electronic controlled valve
- C) Solenoid controlled valve
- D) Vacuum regulated valve

Answer: B) Linear electronic controlled valve

196. What is the permitted overall height of tractor trailer goods vehicle as per motor vehicle act?

- A) Not to exceed 4.75 Mtrs
- B) Not to exceed 4.50 Mtrs
- C) Not to exceed 4.20 Mtrs
- D) Not to exceed 4.00 Mtrs

Answer: C) Not to exceed 4.20 Mtrs

197. How many fuel chamber's are in HEUI?

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

Answer: A) Two

198. Which automobile component produces dust?

- A) Axle
- B) Piston
- C) Gear box
- D) Brake shoe

Answer: D) Brake shoe

199. What is the material used to produce crank shaft?

- A) Cast iron
- B) High speed steel
- C) Wrought iron
- D) Chromium vanadium nickel steel

Answer: D) Chromium vanadium nickel steel

200. What is the reason for twist drill does not cut?

- A) Rake angle is too small
- B) Rake angle is too high
- C) Clearance angle is too small
- D) Clearance angle is too high

Answer: C) Clearance angle is too small

201. Which type of abrasive removes heavy stock of material?

- A) Emery sheet
- B) Aluminium oxide
- C) Silicon carbide
- D) Boron carbide

Answer: C) Silicon carbide

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

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

Answer: B) Wheel cylinder

203. Which winding have thin wire in solenoid switch?

- A) Hold-in winding
- B) Field winding
- C) Armature winding
- D) Field-in winding

Answer: A) Hold-in winding

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

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

Answer: D) Sulphuric acid

205. How does a turbocharger get drive?

- A) By belt
- B) By exhaust gas
- C) By gear
- D) By inlet gas

Answer: B) By exhaust gas

206. Which tool is used to check the cylinder head warpage with feeler gauge?

- A) Steel rule
- B) Steel tape
- C) Try square
- D) Straight edge

Answer: D) Straight edge

207. Which is produced AC output in alternator?

- A) Electro magnetic induction
- B) Reactance
- C) Mutual induction
- D) Self induction

Answer: A) Electro magnetic induction

208. How to care burn hand victim?

- A) Covered water to the burnt hand
- B) Blow cool air to the burnt hand
- C) Blow hot air to the burnt hand
- D) Covered hot water to the burnt hand

Answer: A) Covered water to the burnt hand

209. Which device give high output at low speed?

- A) Dynamo
- B) Transformer
- C) Self motor
- D) Alternator

Answer: D) Alternator

210. Which process is taken place in catalytic convertor?

- A) Physical
C) Chemical

- B) Thermal
D) Biological

Answer: C) Chemical

211. Where is the compression ring is fitted in the piston?

- A) Compression ring bottom of the piston skirt
B) Compression ring between piston pin and bottom of skirt
C) Compression ring between oil ring and piston pin
D) Compression ring above the oil ring in the piston

Answer: D) Compression ring above the oil ring in the piston

212. What is the type of hardening done on crank shaft?

- A) Curve hardening
B) Induction hardening
C) Surface hardening
D) Case hardening

Answer: B) Induction hardening

213. Which type of vehicle emissions is measured in g/Kwh??

- A) Two wheeler
B) Light motor vehicle
C) Two wheeler and light motor vehicle
D) Heavy motor vehicle

Answer: D) Heavy motor vehicle

214. Which instrument is used to check the vacuum of the cylinder?

- A) Compression gauge
B) Dial gauge
C) Vacuum gauge
D) Wire gauge

Answer: C) Vacuum gauge

215. When it is required to change the water pump bearing?

- A) Fan belt loose
B) Low water pressure
C) Bearing noisy
D) Water leakage

Answer: C) Bearing noisy

216. Which safety involves wearing of gloves and helmet in a workshop?

- A) General and machine safety
B) Machine safety
C) General safety
D) Personal safety

Answer: D) Personal safety

217. What will be the contributory cause for engine noise?

- A) Incorrect quality of fuel
B) Defective fuel injection pump
C) Low compression pressure
D) Defective pressure relief valve

Answer: A) Incorrect quality of fuel

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

- A) Helical gear
C) Spiral gear

- B) Rotor gear
D) Spur gear

Answer: D) Spur gear

219. How many flywheel rotation requires to complete one cycle in two stroke engine?

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

Answer: C) One

220. When does a fresh charge escapes from the petrol engine exhaust?

- A) During valve overlap
B) During valve open
C) During valve lead
D) During valve lag

Answer: A) During valve overlap

221. Which governor has fitted the control rack with diaphragm?

- A) Centrifugal governor
B) Pneumatic governor
C) Servo governor
D) Mechanical governor

Answer: B) Pneumatic governor

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

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

Answer: B) Thimble

223. Which part of drill separates the flutes?

- A) Land
B) Web
C) Lip
D) Cutting edge

Answer: B) Web

224. What is the effect on engine performance if the low viscosity grade oil used?

- A) Less oil consumption
B) Engine will be over heated
C) High fuel consumption
D) Excessive oil consumption

Answer: D) Excessive oil consumption

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

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

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

226. 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

227. What causes high oil pressure?

- A) Defective oil pump
- B) Defective fuel feed pump
- C) Water present in the fuel
- D) Defective relief valve

Answer: D) Defective relief valve

228. What will be the probable reason of low oil pressure?

- A) Wornout camshaft, crank shaft bearings
- B) Defective injector
- C) More crankshaft end play
- D) Carbon deposit on piston head

Answer: A) Wornout camshaft, crank shaft bearings

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

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

Answer: C) IHP - BHP

230. What is heat?

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

Answer: C) Energy

231. Which type of form used to declare medical fitness in motor vehicle act?

- A) Form 1A
- B) Form 26
- C) Form 9
- D) Form 20

Answer: A) Form 1A

232. Which drilling machine achieves various spindle speed by changing the belt position?

- A) Radial drilling machine
- B) Pillar drilling machine
- C) Column drilling machine
- D) Sensitive bench drilling machine

Answer: D) Sensitive bench drilling machine

233. Where is the delivery pipe of fuel feed pump connected?

- A) Fuel injection pump
- B) Fuel filter
- C) Fuel gallery
- D) Fuel tank

Answer: B) Fuel filter

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

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

Answer: A) Thermistor

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

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

Answer: C) Vacuum gauge

236. Which type of the emission control system that blow by gases are feed in to the inlet manifold of a running engine?

- A) Catalytic convention
- B) Crank case ventilation
- C) Exhaust gas recirculation
- D) Positive crank case ventilation

Answer: D) Positive crank case ventilation

237. Which is the load taken by the roller bearing?

- A) Axial load
- B) Radial and axial load
- C) Radial load
- D) Thrust load

Answer: C) Radial load

238. Which tool is used in to make internal threading in the component?

- A) Tap
- B) Drill
- C) Reamer
- D) Die

Answer: A) Tap

239. Which device converts hydraulic energy into mechanical energy?

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

Answer: C) Actuator

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

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

Answer: D) Two

241. 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

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

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

Answer: C) Ohmmeter

243. What is the formula for calculating the drill size for reaming?

- A) Drill size=Reamed size-(Under size +over size)
- B) Drill size=Reamed size-(Under size x over size)
- C) Drill size=Reamed size-(Under size-over size)
- D) Drill size=Reamed size+(Under size + over size)

Answer: A) Drill size=Reamed size-(Under size +over size)

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

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

Answer: D) silicon

245. Which fuel related with cetane number?

- A) Diesel
C) Coal
- B) Kerosene
D) Petrol

Answer: A) Diesel

246. Which type of fuel contains more carbon monoxide?

- A) Unburnt fuel
C) Solid fuel
- B) Liquid fuel
D) Burnt fuel

Answer: A) Unburnt fuel

247. Which electronic device controls the engine system?

- A) Ecm
C) Switch
- B) Fuse
D) Regulator

Answer: A) Ecm

248. What is the purpose of half round chisel?

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

Answer: C) Cut curved grooves

249. Which is the hardest abrasive material?

- A) Silicon carbide
C) Aluminium oxide
- B) Boron carbide
D) Diamond

Answer: D) Diamond

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

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

Answer: C) Scavenging

251. Which is the Ohm's Mathematical Expression?

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

Answer: B) $I = (V/R)$

252. Which valve safe guards the hydraulics jack?

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

Answer: D) Relief valve

253. What is the cause for electric fire?

- A) Over loaded circuits
C) Tight wire connection
- B) Rated fuses
D) Under loaded circuit

Answer: A) Over loaded circuits

254. Which type of fire extinguisher unsuitable for electric fire?

- A) CTC
C) Foam
- B) Dry powder
D) CO_2

Answer: C) Foam

255. Which oil is used in cooling system?

- A) Coolant oil
C) Lubricant oil
- B) Hydraulic oil
D) Mineral oil

Answer: A) Coolant oil

256. How many cells are in the 12V Battery?

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

Answer: B) 6 cells

257. Which device converts mechanical energy into pneumatic energy?

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

Answer: D) Compressor

258. What is the main purpose of the lubricant?

- A) Increase the friction
C) Increase the wearness
- B) Minimise the friction
D) Increase the noise

Answer: B) Minimise the friction

259. What is the special tool used while refitting of liner in cylinder block ?

- A) Feeler gauge
C) Plastic gauge
- B) Outside micro meter
D) Hydraulic press

Answer: D) Hydraulic press

260. Where the metal fins are provided in the air cooled engine?

- A) Valve door
C) Exhaust pipe
- B) Cylinder and head
D) Intake manifold

Answer: B) Cylinder and head

261. Which oil is harmful to the environment?

- A) Hydraulic oil
C) Used engine oil
- B) Hydraulic oil
D) Engine oil

Answer: C) Used engine oil

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

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

Answer: A) Bend snip

263. Which type of pump is used in water cooling system?

- A) Diaphragm pump B) Gear pump
C) Centrifugal pump D) Reciprocating pump

Answer: C) Centrifugal pump

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

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

Answer: A) Viscosity

265. Which is the most preferred use of roller bearings?

- A) Differential B) Connecting rods
C) Gear boxes D) Fly wheel

Answer: C) Gear boxes

266. Which types of safety involves wearing of safety shoes and goggle in a workshop?

- A) General safety B) Personal safety
C) Machine safety D) General and machine safety

Answer: B) Personal safety

267. Which shell electrons has least energy?

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

Answer: C) K shell electron

268. What instrument used to check run out of commutator?

- A) Vernier caliper B) Growler
C) Multimeter D) Dial gauge

Answer: D) Dial gauge

269. What is the working cycle of compression ignition engine?

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

Answer: D) Diesel cycle

270. What is acronym for DEF in selective catalytic reduction?

- A) Diesel exhaust fluid B) Diesel engine fluid
C) Diesel emission fluid D) Diesel engine fuse

Answer: A) Diesel exhaust fluid

271. Which type of protective equipment used to protect head?

- A) Boot B) Mask
C) Apron D) Helmet

Answer: D) Helmet

272. Which area is restricted to smoking?

- A) Corporation limit area B) Gram market area

- C) Fuel refilling area D) Water filling area

Answer: C) Fuel refilling area

273. How the water pump get drive in pump circulation cooling system?

- A) By chain B) By belt
C) By coupling D) By gear

Answer: B) By belt

274. Which tool is used to remove the piston ring?

- A) Ring expander B) Drift punch
C) Circlip plier D) 'C' clamp

Answer: A) Ring expander

275. Which type of workshop equipment used to deliver the air pressure to hydraulic hoist?

- A) Hydraulic pump B) Jib crane
C) Vacuum pump D) Compressor

Answer: D) Compressor

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

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

Answer: C) Flat nose plier

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

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

Answer: C) Number of the strand

278. What is the material of cylinder block?

- A) Brass B) Cast iron
C) Zinc alloy D) Bronze

Answer: B) Cast iron

279. Which angle of drill bit prevents the friction behind the cutting edge?

- A) Helix angle B) Point angle
C) Rake angle D) Clearance angle

Answer: D) Clearance angle

280. Which part allows to flow water from upper tank to lower tank of the radiator?

- A) Fins B) Water pump
C) Core tubes D) Bottom hole

Answer: C) Core tubes

281. Where is fuel injector fitted?

- A) Crank case B) Head cover

- C) Cylinder block D) Cylinder head

Answer: D) Cylinder head

282. Which cable is the thickest used in the automobile wiring?

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

Answer: C) Starter motor cable

283. Which condition does a alternator normally charge the battery?

- A) High engine speed B) High engine torque
C) Low engine torque D) Low engine speed

Answer: D) Low engine speed

284. How much maximum fuel pressure developed in fuel injection pump?

- A) 200 to 300 Kgf/cm² B) 100 to 200 Kgf/cm²
C) 300 to 400 Kgf/cm² D) 400 to 700 Kgf/cm²

Answer: D) 400 to 700 Kgf/cm²

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

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

Answer: D) Diesel Cycle

286. What is the purpose of the timing chain?

- A) To connect water pump pulley B) To connect crank or cam shaft gear
C) To connect alternator D) To connect A/C compressor

Answer: B) To connect crank or cam shaft gear

287. What is the purpose of angle plate?

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

Answer: B) Marking

288. What will be the effect on the engine performance in case of loose fan belt?

- A) High fuel pressure B) Low power generation
C) Engine over heating D) High full consumption

Answer: C) Engine over heating

289. What is the type of mechanical hazards in workshop?

- A) Un guarded machinery B) Wrong layout of machinery
C) Sickness D) Current leakage

Answer: A) Un guarded machinery

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

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

Answer: D) 180 Degree

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

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

Answer: C) 8 digit

292. Which instrument is used to check the tappet clearance?

- A) Feeler gauge B) Screw pitch gauge
C) Telescopic gauge D) Wire gauge

Answer: A) Feeler gauge

293. What does EPA refers to environment?

- A) Environmental provision agency B) Environmental protection agency
C) Environmental prevention act D) Environmental provision act

Answer: B) Environmental protection agency

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

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

Answer: B) Transistor

295. When the valve clearance to be adjusted?

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

Answer: A) Just opened

296. What is the purpose of reamer?

- A) removing burrs B) enlarging and finishing holes
C) drilling deep holes D) drilling holes in thin sheets

Answer: B) enlarging and finishing holes

297. What is the validity of learner driving license?

- A) 1 year B) 10 Months
C) 6 Months D) 8 Months

Answer: C) 6 Months

298. What is the reason for pneumatic brake failure?

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

Answer: C) Defective unloader valve

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

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

Answer: B) Straight edge, feeler gauge

300. Which is used to convert AC to DC in alternator?

- A) Condenser
- B) Slip ring
- C) Diodes
- D) Rotor

Answer: C) Diodes

301. Which type of fire extinguisher suitable for class 'A' fire?

- A) Carbon-di-oxide
- B) Foam or water
- C) Dry powder
- D) Halon

Answer: B) Foam or water

302. Which tool is required to remove the valves?

- A) Valve spring lifter
- B) Scraper
- C) Box spanner
- D) Torque wrench

Answer: A) Valve spring lifter

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

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

Answer: A) Torque wrench

304. How is the Battery capacity expressed?

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

Answer: B) Ampere - hour rating

305. 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) 10:01
- C) 09:01
- D) 08:01

Answer: B) 10:01

306. What is the type of fire with wood, cloth, and paper?

- A) Class - D
- B) Class - B
- C) Class - C
- D) Class - A

Answer: D) Class - A

307. What is the result of clogged oil strainer in the sump?

- A) High oil consumption
- B) Low oil pressure
- C) Low fuel pressure
- D) High oil pressure

Answer: B) Low oil pressure

308. Which tool is used to make external thread on the pipe?

- A) Die
- B) Reamer
- C) Tap
- D) Drill

Answer: A) Die

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

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

Answer: A) Delivery

310. How the quantity of fuel delivery vary in a running diesel engine?

- A) By injection
- B) By control rack
- C) By control sleeve
- D) By plunger

Answer: B) By control rack

311. What is the result of weak compression pressure?

- A) High oil consumption
- B) Low fuel consumption
- C) Engine will not start
- D) Lower power generation

Answer: D) Lower power generation

312. What is the effect if the radiator cores are clogged?

- A) Increase coolant flow
- B) Free coolant flow
- C) Slow coolant flow
- D) Stop coolant flow

Answer: D) Stop coolant flow

313. What is the material of piston pins?

- A) Nickel chromium steel
- B) HSS
- C) Bronze
- D) Cast iron

Answer: A) Nickel chromium steel

314. What is the speed ratio cam shaft to crank shaft?

- A) Equal
- B) Triple
- C) Half
- D) Double

Answer: C) Half

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

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

Answer: C) Octane number

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

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

Answer: D) Opposite direction

317. Which among the following form is required for driving license?

- A) Form LLD B) Form CFA
C) Form 20 D) Form 30

Answer: A) Form LLD

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

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

Answer: C) Two times

319. What is the effect if thermostat valve is struck?

- A) Engine does not start B) Engine gets over cooling
C) Engine does not stop D) Engine gets over heating

Answer: D) Engine gets over heating

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

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

Answer: C) ARAI (Automotive research association of India)

321. Which emission react with other compounds in the atmosphere to produce photo chemical smog?

- A) CO B) PM
C) SO₂ D) HC

Answer: D) HC

322. Which part of the engine engages with starter motor pinion?

- A) Fly wheel ring gear B) Cam Shaft gear
C) Timing gear D) Pump gear

Answer: A) Fly wheel ring gear

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

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

Answer: C) Ohmmeter

324. Which is to be checked before use the tool?

- A) Tools damage or worn B) Tools manufacture name
C) Tools manufacturing year D) Tools material name

Answer: A) Tools damage or worn

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

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

Answer: B) Swivel socket spanner

326. What is the mechanical efficiency of an engine?

- A) (IHP/BHP)×100 B) (BHP/IHP)×100
C) (FHP/BHP)×100 D) (BHP/FHP)×100

Answer: B) (BHP/IHP)×100

327. What is called the isolating the fire from the supply of oxygen by blanketing with foam and sand?

- A) Cooling B) Smothering
C) Starting D) Misfiring

Answer: B) Smothering

328. Which should not be used on burning liquids?

- A) Water B) Foam
C) Sand D) CO₂

Answer: A) Water

329. What is the material of exhaust manifold?

- A) Brass B) Bronze
C) Cast iron D) Steel alloy

Answer: C) Cast iron

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

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

Answer: D) Four electrons in the outer most orbit

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

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

Answer: D) Cetane number

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

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

Answer: B) Clearance volume

333. When the thermostat valve open in engine?

- A) Freezing temperature of engine B) Operating temperature of engine
C) High temperature of engine D) Low temperature of engine

Answer: B) Operating temperature of engine

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

- A) Vernier gauge B) Telescopic gauge

- C) Dial test indicator D) Bore dial gauge

Answer: C) Dial test indicator

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

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

Answer: A) Always holds correct level of fuel

336. Which engine has carburetor?

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

Answer: A) Petrol

337. What is the material of inlet manifold?

- A) Brass B) Stainless steel
C) Aluminium alloy D) Bronze

Answer: C) Aluminium alloy

338. What is acronym for SCR in emission control system?

- A) Selective controlled rectifier B) Silicon controlled rectifier
C) Selective controlled reduction D) Selective catalytic reduction

Answer: D) Selective catalytic reduction

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

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

Answer: D) Linear motion into rotary motion

340. Which tool is used to set compression ring into the piston?

- A) Piston groover B) Piston ring compression
C) Piston ring expander D) Piston pin remover

Answer: B) Piston ring compression

341. Which is explosive hazard?

- A) Mechanical hazard B) Biological hazard
C) Chemical hazard D) Physical hazard

Answer: C) Chemical hazard

342. Which type drive mechanism slide the armature in starting motor?

- A) Bendix drive B) Over running clutch drive
C) Non axial drive D) Axial drive

Answer: D) Axial drive

343. What is the purpose of the dip stick used in the engine?

- A) To check oil temperature B) To check oil level
C) To check oil pressure D) To check oil density

Answer: B) To check oil level

344. What is the acronym for EGR in emission control system?

- A) Exhaust gas recirculation B) Engine gas recirculation
C) Exhaust gate regulator D) Emission gas recirculation

Answer: A) Exhaust gas recirculation

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

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

Answer: C) Carburetor

346. When it is required to coincide the mark with timing gears?

- A) During assembling oil pump B) During assembling cam shaft
C) During assembling water pump D) During assembling radiator

Answer: B) During assembling cam shaft

347. 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

348. What is the purpose of baffles in the fuel tank?

- A) To make chambers in the fuel tank B) To make square and lengthy fuel tank
C) To minimize the slushing of fuel in the tank D) To strengthen the fuel tank

Answer: C) To minimize the slushing of fuel in the tank

349. Which one of the following acts as a flame arrester during engine back fire?

- A) Air filter B) Oil filter
C) Muffler D) Fuel filter

Answer: A) Air filter

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

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

Answer: D) Hydraulic hoist

351. What is the validity for international driving license?

- A) 3 Years B) 1 Year
C) 5 Years D) 2 Years

Answer: B) 1 Year

352. What is the reason to decrease the volumetric efficiency in exhaust system?

- A) Excessive back pressure B) High temperature
- C) Low noise D) Low temperature

Answer: A) Excessive back pressure

353. What is the purpose of the EVAP canister?

- A) to trap the fresh charge B) to trap the leak off fuel
- C) to trap the fuel vapour D) to trap the exhaust gas

Answer: C) to trap the fuel vapour

354. Which is a colourless, odourless tasteless and high toxic gas?

- A) SO_2 B) CO
- C) NO_2 D) CO_2

Answer: B) CO

355. Which type of filter element is fitted in dry type air cleaner?

- A) Wire mesh B) Cloth
- C) Strainer D) Paper

Answer: D) Paper

356. Which one of the hydro carbon (HC) emitted due to lack of oxygen?

- A) From fuel tank B) From carburettor
- C) From exhaust manifold D) From blow by crank case

Answer: C) From exhaust manifold

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

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

Answer: D) Controls air fuel mixture into the engine

358. What type of emf is produced if the conductor moved and cut the magnetic field?

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

Answer: A) Dynamically induced emf

359. Which system the gear type oil pump is used?

- A) Fuel system B) Lubrication system
- C) Cooling system D) Air conditioning system

Answer: B) Lubrication system

360. Which is leak proof between nozzle and nozzle body?

- A) Prevent dirty smoke B) Mirror polishing finish in nozzle and body

- C) Increase the power D) Easy starting

Answer: B) Mirror polishing finish in nozzle and body

361. What is the material used in hand reamer?

- A) Cast iron B) H. S.S
- C) Mild steel D) Brass

Answer: B) H. S.S

362. What is the purpose of form 33 used regarding registration certificate?

- A) Registration of motor vehicle act B) Renewable of certificate of fitness
- C) Notice of transfer of ownership or vehicle D) Intimation of change of address

Answer: D) Intimation of change of address

363. What will be effect on engine performance in case of air in the fuel system?

- A) High fuel consumption B) Low fuel consumption
- C) Engine runs erratically D) High oil consumption

Answer: C) Engine runs erratically

364. Which reaction is irrelevant to the 3 way catalytic converters?

- A) $\text{CO} + \text{H}_2 + \text{O} \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ B) $\text{NO} + \text{N}_2 \rightarrow \text{N}_2\text{O} + \text{CO}_2$
- C) $\text{C} + \text{CO}_2 \rightarrow \text{CO} + \text{O}_2$ D) $\text{HC} + \text{H}_2 + \text{O} \rightarrow \text{CO}_2 + \text{H}_2\text{O}$

Answer: C) $\text{C} + \text{CO}_2 \rightarrow \text{CO} + \text{O}_2$

365. Where the carbon brushes are in contact with starting motor?

- A) End cover B) Armature
- C) Armature shaft D) Commutator

Answer: D) Commutator

366. What is the purpose of accelerating pump circuit?

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

Answer: A) Provides extra fuel during pick up speed

367. Which drilling machine is used to drill multiple holes in one setting of work?

- A) Column drilling machine B) Pillar drilling machine
- C) Hand drilling machine D) Radial drilling machine

Answer: D) Radial drilling machine

368. Which lubrication system is used separate oil tank?

- A) Splash lubrication B) Wet sump lubrication
C) Dry sump lubrication D) Petrol - oil lubrication

Answer: C) Dry sump lubrication

369. Which is used to hold the die?

- A) Chuck B) Wrench
C) Stock D) Spanner

Answer: C) Stock

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

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

Answer: C) Ohmmeter

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

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

Answer: C) 80 mm

372. What is the use of form LLD in motor vehicle act?

- A) No objection certificate B) Registration of motor vehicle
C) Intimation of loss driving license D) Medical certificate

Answer: C) Intimation of loss driving license

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

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

Answer: D) Brake chamber

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

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

Answer: A) Short circuit

375. Which device is best for control toxic waste?

- A) Vacuum cleaner B) Air compressor
C) Wire brush D) Cotton waste

Answer: A) Vacuum cleaner

376. Which valve is maintaining in the high pressure FIP pipe line?

- A) Delivery valve B) Control rack
C) Barrel D) Plunger

Answer: A) Delivery valve

377. 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

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

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

Answer: B) Trolley jack

379. Which engine is used the Petrol oil lubrication system?

- A) Four stroke engine B) Battery car
C) Steam engine D) Two stroke engine

Answer: D) Two stroke engine

380. Which type personal protective equipment is recommended for use, to handle loads with rough surfaces and jagged edges?

- A) Polythene gloves B) Paper gloves
C) Leather gloves D) Rubber gloves

Answer: C) Leather gloves

381. What is the purpose of the radiator in the cooling system?

- A) Cool the hot water B) Cool the water pump
C) Cool the hot air D) Cool the hot oil

Answer: A) Cool the hot water

382. Which is the key element in converting reciprocating motion in to rotary motion?

- A) Cam shaft B) King pin
C) Gudgeon pin D) Connecting rod

Answer: D) Connecting rod

383. Which gauge used to measure the cylinder bore weariness?

- A) Depth gauge B) Compression gauge
C) Vacuum gauge D) Dial gauge

Answer: D) Dial gauge

384. What type of bearing fitted in the connecting rod big end?

- A) Shell bearing B) Ball bearing
C) Needle bearing D) Taper roller bearing

Answer: A) Shell bearing

385. Which comes under first aid?

- A) Completing a primary source
C) Treating a victim for a shock
- B) Immediate care and support given to injured person
D) Assessing a victim's vital signs
- Answer: B) Immediate care and support given to injured person**

386. Which is the bearing used in differential and wheel of a heavy vehicles?

- A) Roller bearing
C) Needle bearing
- B) Ball bearing
D) Taper roller bearing

Answer: D) Taper roller bearing

387. Which is highly flammable liquid?

- A) LPG
C) Water
- B) Diesel
D) Crude oil

Answer: A) LPG

388. Which tool used to remove the crank shaft pulley?

- A) Ring spanner
C) Pipe wrench
- B) Puller
D) Double end spanner

Answer: B) Puller

389. Where the fly wheel is fitted in the engine?

- A) Primary shaft
C) Cam shaft
- B) Crank shaft
D) Rocker arm shaft

Answer: B) Crank shaft

390. What is your immediate action on completion of first aid?

- A) Call taxi
C) Call your friend
- B) Call emergency service
D) Call fire service

Answer: B) Call emergency service

391. Which class of fire comes under flammable liquids

- A) Class - D
C) Class - C
- B) Class - A
D) Class - B

Answer: D) Class - B

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

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

Answer: C) Multi meter

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

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

Answer: A) Master cylinder

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

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

Answer: D) Ballast resistor

395. Which part of the human body need to protect in high noise level at work place?

- A) Eye
C) Head
- B) Ear
D) Nose

Answer: B) Ear

396. What is the material for cam shaft?

- A) Copper alloy
C) Forged alloy steel
- B) Aluminium alloy
D) Zinc alloy

Answer: C) Forged alloy steel

397. What is the function of heater plug?

- A) Warm up valves
C) Warm up fuel pump
- B) Warm up combustion chamber
D) Warm up injector

Answer: B) Warm up combustion chamber

398. How can identify a four stroke engine?

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

Answer: D) Valves

399. Which control the voltage in alternator current?

- A) Rotor assembly
C) Battery +ve terminal
- B) Stator assembly
D) Regulator

Answer: D) Regulator

400. Which equipment is to support under lifting vehicle before working underneath the vehicle for safe work?

- A) Slings chain
C) Stand
- B) Lifting crane
D) Hydraulic jack

Answer: C) Stand

401. What is ovality of a bore?

- A) Difference in dia measured only at top
C) Difference in dia measured top to bottom
- B) Difference in dia measured only at bottom
D) Difference in dia thrust to non thrust side of cylinder

Answer: D) Difference in dia thrust to non thrust side of cylinder

402. What is the uses of hand tap?

- A) To bevel at the hole end
C) To make external thread
- B) To make enlarge hole
D) To make internal thread

Answer: D) To make internal thread

403. Which law is applied in hydraulic brake system?

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

Answer: D) Pascal's law

404. What is indicated horse power?

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

Answer: C) Power developed in the cylinder

405. Which is the multipoint cutting tool?

- A) Reamer
- B) Snips
- C) Chisel
- D) Scraper

Answer: A) Reamer

406. What is the age limit prescribed to drive transport vehicles?

- A) 22 years
- B) 20 Years
- C) 18 Years
- D) 16 Years

Answer: B) 20 Years

407. Which type of engine uses SCR for emission control?

- A) LPG engine
- B) Petrol engine
- C) CNG engine
- D) Diesel engine

Answer: D) Diesel engine

408. Which item is to be prevent class ?B? fire?

- A) Argon
- B) Nitrogen
- C) CO₂
- D) Oxygen

Answer: C) CO₂

409. Which drilling machine used to drill small dia holes upto 6 mm?

- A) Bevel gear hand drill
- B) Electric hand drill light duty
- C) Electric hand drill heavy duty
- D) Pneumatic hand drill

Answer: A) Bevel gear hand drill

410. What is the effect of taper and ovality of a bore?

- A) False valve timing
- B) Difficult starting
- C) Compression loss
- D) Miss firing

Answer: C) Compression loss

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

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

Answer: D) Copper

412. Which are the materials commonly used in the catalytic converter?

- A) Chromium and vanadium
- B) Zinc and molybdenum
- C) Palladium and platinum
- D) Asbestos and ceramics

Answer: C) Palladium and platinum

413. What is the property of a bearing helps to with stand metal to metal contact?

- A) Fatigue strength
- B) Thermal conductivity
- C) Surface action
- D) Embeddability

Answer: C) Surface action

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

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

Answer: A) 7

415. How oil deliver from the crank shaft main bearings to connecting rod bearings?

- A) Through crank pulley
- B) Through vibration damper
- C) Through sprocket
- D) Through drilled oil passages

Answer: D) Through drilled oil passages

416. What is the outcome of starting engine with corroded battery terminals?

- A) Engine will be over heated
- B) Engine will not start
- C) Engine run erratically
- D) Low power generation

Answer: B) Engine will not start

417. Where the gas turbines are used?

- A) Light motor vehicle
- B) Air craft
- C) Car
- D) Two wheeler

Answer: B) Air craft

418. What is the cause for uneven wear of bearings?

- A) Bend twist
- B) No lubrication
- C) Over heat
- D) Excessive lubrication

Answer: A) Bend twist

419. Which is the bearing used in gear boxes?

- A) Roller bearing
- B) Taper roller bearing
- C) Ball bearing
- D) Needle bearing

Answer: C) Ball bearing

420. Which metal in the fuel is to be avoided while fitting catalytic convertor?

- A) Lead
- B) Phosphorus
- C) Chromium
- D) Tin

Answer: A) Lead

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

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

Answer: D) Viscosity

422. What is the purpose of the turbo charger?

- A) Filter the exhaust gas
- B) Pump more air into the cylinder
- C) Scavenging
- D) Save power

Answer: B) Pump more air into the cylinder

423. Which is the bearing used in water pump?

- A) Roller bearing
- B) Needle bearing
- C) Ball bearing
- D) Taper roller bearing

Answer: C) Ball bearing

424. Which is the power source of pneumatic system?

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

Answer: D) Air Compressor

425. What is the purpose of the fly wheel timing mark?

- A) To set the valve clearance
- B) To set the F.I.P timing
- C) To set the engine timing
- D) To coincide the gears

Answer: C) To set the engine timing

426. Which part of a drill is fitted on the machine?

- A) Body
- B) Shank
- C) Flute
- D) Point

Answer: B) Shank

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

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

Answer: A) 1.260 - 1.280

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

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

Answer: A) Mechanical

429. What does red circle instructs in traffic signs?

- A) Information sign
- B) What should be done
- C) Cautionary sign
- D) What should not be done

Answer: D) What should not be done

430. What is the name the portion below the piston boss?

- A) Land of the piston
- B) Skirt of the piston
- C) Crown of the piston
- D) Ring section of the piston

Answer: B) Skirt of the piston

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

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

Answer: B) 0.2 V

432. What is the smallest reading of vernier caliper?

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

Answer: C) Least count