

ITI Quiz - 10-Jun-2026

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Q. ID: ITISKILL2805ZO

June 2026

Iti

Question Paper

Duration: 30 Mins

Total Marks: 432

ID: ITISKILL2805ZO

Student Name: _____ Roll No: _____

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

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

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

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

3. What does EPA refers to environment?

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

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

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

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

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

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

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

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

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

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

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

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

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

10. Which shell electrons has least energy?

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

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

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

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

- A) 6 Mtrs
- B) 8 Mtrs
- C) 12 Mtrs
- D) 15 Mtrs

13. Which fire extinguisher suitable for class 'C' fire?

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

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

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

15. Which fuel related with cetane number?

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

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

- A) During assembling cam shaft
- B) During assembling water pump

C) During assembling radiator	D) During assembling oil pump	C) Low engine speed	D) Low engine torque
17. How many cells are in the 12V Battery?		27. How many national automotive testing and R&D infrastructure projects (NATRIP) are established in India?	
A) 9 cells	B) 2 cells	A) 6	B) 4
C) 6 cells	D) 12 cells	C) 5	D) 7
18. What is acronym for DEF in selective catalytic reduction?		28. Which year Hindustan motor established ambassador car industry in India?	
A) Diesel emission fluid	B) Diesel engine fluid	A) 1900	B) 1900
C) Diesel engine fuse	D) Diesel exhaust fluid	C) 1980	D) 1940
19. What is brake horse power?		29. Which device transmit the pressure equally to all wheel cylinders in hydraulic brake?	
A) Power available at the gear box	B) Power available at the cylinder	A) Booster cylinder	B) Master cylinder
C) Power available at fly wheel	D) Power available at the wheels	C) Servo cylinder	D) Slave cylinder
20. What is called the isolating the fire from the supply of oxygen by blanketing with foam and sand?		30. Which instrument is used to check the vacuum of the cylinder?	
A) Cooling	B) Misfiring	A) Compression gauge	B) Wire gauge
C) Starting	D) Smothering	C) Dial gauge	D) Vacuum gauge
21. What is the ampere hour rating if battery deliver 5 ampere and period of 20 hours?		31. Which ministry of India regulate the motor vehicle activity?	
A) 90 Ampere hour	B) 80 Ampere hour	A) Minister of road transport and highways	B) Minister of defence
C) 110 Ampere hour	D) 100 Ampere hour	C) Minister of finance	D) Minister of rural and development
22. Which measuring instrument used to measure the Ampere, volt and resistance?		32. Which is the bearing used in water pump?	
A) Galvana meter	B) Wattmeter	A) Needle bearing	B) Ball bearing
C) Energy meter	D) Multi meter	C) Roller bearing	D) Taper roller bearing
23. Which tool is used to remove valve?		33. What causes high oil pressure?	
A) Value spring compressor	B) Piston ring groover	A) Defective relief valve	B) Defective fuel feed pump
C) Piston ring expander	D) Piston ring compressor	C) Defective oil pump	D) Water present in the fuel
24. What is the process of driving exhaust gases in two stroke engine out of cylinder?		34. What is the cause of erratic running of engine?	
A) Super charging	B) Combustion	A) Low compression pressure	B) Water present in the fuel
C) Scavenging	D) Intaking	C) Clogged air cleaner	D) Defective radiator pressure cap
25. What is the purpose of reamer?		35. Which type of personal protective equipment used to protect eye?	
A) drilling holes in thin sheets	B) removing burrs	A) Goggles	B) Gloves
C) enlarging and finishing holes	D) drilling deep holes	C) Cap	D) Mask
26. Which condition does a dynamo highly charge the battery?		36. How the set of operations performed in sequence of motion of the piston in an engine produce power is called?	
A) High engine torque	B) High engine speed		

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

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

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

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

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

39. When do we use the hand priming pump?

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

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

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

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

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

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

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

43. What is the purpose of accelerating pump circuit?

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

44. What is the cause for electric fire?

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

45. Which oil is harmful to the environment?

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

46. Which tool is required to remove the valves?

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

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

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

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

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

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

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

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

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

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

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

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

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

53. Which comes under first aid?

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

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

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

55. Which is the bearing used in gear boxes?

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

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

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

57. Which law is applied in hydraulic brake system?

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

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

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

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

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

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

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

61. What is the purpose of the timing chain?

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

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

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

63. Which is a temperature sensitive resistor?

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

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

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

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

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

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

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

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

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

C) To strengthen the fuel tank

D) To make chambers in the fuel tank

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

- A) Worn out shaft
- B) Worn out seal
- C) Worn out impeller
- D) Worn out bearing

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

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

70. What causes high fuel consumption?

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

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

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

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

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

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

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

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

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

75. Which part connects the petrol engine inlet manifold?

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

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

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

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

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

78. Which type drive mechanism slide the armature in

starting motor?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

86. Which is the cause for lifting equipment failure?

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

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

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

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

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

89. Which electronic device controls the engine system?

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

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

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

91. Which control the voltage in alternator current?

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

92. How can identify a two stroke engine?

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

93. What is the smallest reading of vernier caliper?

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

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

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

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

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

96. Which is explosive hazard?

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

97. What is the cause of low power generation?

- A) Low oil viscosity
- B) Improper tappet clearance
- C) Engine overheating
- D) High oil level

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

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

99. What is the result of weak compression pressure?

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

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

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

101. What is the purpose of the EVAP canister?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

109. Which engine has carburetor?

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

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

- A) Leg
- B) Knee
- C) Wrist
- D) Buttock

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

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

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

- A) Lapping
- B) Filling
- C) Reaming
- D) Grinding

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

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

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

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

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

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

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

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

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

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

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

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

119. Which is produced AC output in alternator?

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

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

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

121. Which valve safe guards the hydraulics jack?

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

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

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

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

- | | |
|--------------------|-------------------|
| A) 200 - 600 bar | B) 600 - 1000 bar |
| C) 1000 - 1600 bar | D) 100 - 200 bar |

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

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

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

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

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

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

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

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

128. What is the reason for corrosion of bearing?

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

129. How the hammers are specified?

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

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

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

131. Which is related to pneumatic system?

- | | |
|----------------------|-------------------|
| A) Pressurized water | B) Electric |
| C) Steam | D) Compressed air |

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

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

133. How to care burn hand victim?

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

134. Which is the multipoint cutting tool?

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

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

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

136. What is ABC in first aid?

- | | |
|-----------------------------------|---------------------------------|
| A) Aviation, Breathing, Cumin | B) Away, Breathing, Calculation |
| C) Airway, Breathing, Circulation | D) Army, Branch, Calculate |

137. When motor vehicle act came into force?

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

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

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

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

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

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

- | | |
|--------------|--------------------|
| A) Fly wheel | B) Connecting rods |
|--------------|--------------------|

C) Crank shaft

D) Oil pumps

141. What is the purpose of angle plate?

A) Grinding

B) Marking

C) Polishing

D) Machining

142. What does red circle instructs in traffic signs?

A) What should not be done

B) What should be done

C) Cautionary sign

D) Information sign

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

A) Ohmmeter

B) Ammeter

C) Wattmeter

D) Voltmeter

144. 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

145. What is the validity of learner driving license?

A) 1 year

B) 10 Months

C) 6 Months

D) 8 Months

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

A) High engine speed

B) Low engine torque

C) Low engine speed

D) High engine torque

147. How is the Battery capacity expressed?

A) Ampere - hour rating

B) Ampere rating

C) Voltage rating

D) Voltage - hour rating

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

A) High Tension Cable

B) Spark plug

C) Condenser

D) Ignition coil

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

A) Straight edge

B) Steel rule

C) Steel tape

D) Try square

150. Which process is taken place in catalytic convertor?

A) Biological

B) Physical

C) Chemical

D) Thermal

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

A) Diaphragm pump

B) Gear pump

C) Reciprocating pump

D) Centrifugal pump

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

A) Field regulator

B) Current regulator

C) Voltage regulator

D) Cut out regulator

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

A) High full consumption

B) Low power generation

C) Engine over heating

D) High fuel pressure

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

A) Measure the resistance

B) Measure the current

C) Measure the voltage

D) Measure the power

155. Which is the power developed in an engine?

A) BHP

B) RHP

C) IHP

D) IHP

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

A) Half

B) Equal

C) Double

D) Triple

157. What is the stationary part of an alternator?

A) Slip rings

B) Pulley

C) Rotor

D) Stator

158. Which is the hardest abrasive material?

A) Silicon carbide

B) Boron carbide

C) Aluminium oxide

D) Diamond

159. Which device converts hydraulic energy into mechanical energy?

A) Compressor

B) Actuator

C) Regulator

D) Control Valve

160. What is ovality of a bore?

A) Difference in dia measured top to bottom

B) Difference in dia thrust to non thrust side of cylinder

C) Difference in dia measured only at bottom

D) Difference in dia measured only at top

161. How electrons move in a conductor?

A) Current

B) Voltage difference

C) Resistance

D) Conductance

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

A) Increase coolant flow

B) Stop coolant flow

C) Free coolant flow

D) Slow coolant flow

163. What is the uses of hand tap?

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

164. Which refers the size of hexagonal Allen key?

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

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

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

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

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

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

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

168. 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) Steel rule, metal shim D) Knife, wooden blank

169. Which lubrication system is used separate oil tank?

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

170. 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

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

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

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

- A) 08:01 B) 11:01

C) 09:01

D) 10:01

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

182. 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

190. Which oil is used in cooling system?

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

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

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

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

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

193. Which part of alternator generate AC current in the

stator coil?

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

194. Which should not be used on burning liquids?

- | | |
|--------------------|---------|
| A) CO ₂ | B) Foam |
| C) Water | D) Sand |

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

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

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

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

197. What is the power flow of pneumatic system?

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

198. Which personal protective equipment protect the dust?

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

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

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

200. 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 |

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

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

202. Where heat dissipation take place in cooling system?

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

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

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

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

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

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

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

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

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

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

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

208. What is the purpose of half round chisel?

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

209. What is the cause of excessive loading?

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

210. What is the class of gas burning fire?

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

211. Which causes the air enter into cylinder?

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

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

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

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

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

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

- A) Strike the metal
- B) Spread the metal in one direction

C) Fix the handle

D) Strike the metal in all direction

215. What is the validity for international driving license?

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

216. Which device converts mechanical energy into pneumatic energy?

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

217. Which tool used to remove the crank shaft pully?

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

218. Which winding have thin wire in solenoid switch?

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

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

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

220. Where the exhaust system muffler is connected?

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

221. Which part of drill separates the flutes?

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

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

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

223. What is the main purpose of the lubricant?

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

224. Which winding have thick wire in solenoid switch?

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

225. Which type of filter element is fitted in dry type air

cleaner?

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

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

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

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

- | | |
|--------------------|-------|
| A) CO | B) HC |
| C) SO ₂ | D) PM |

228. Which form required for registration certificate?

- | | |
|-----------------|------------|
| A) Form C.F.R.A | B) Form 29 |
| C) Form 1A | D) Form 26 |

229. When the valve clearance to be adjusted?

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

230. What is the reason for pneumatic brake failure?

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

231. Where is fuel injector fitted?

- | | |
|------------------|-------------------|
| A) Cylinder head | B) Cylinder block |
| C) Head cover | D) Crank case |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

242. 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 |

243. What is the function of heater plug?

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

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

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

245. How the screw driver is specified?

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

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

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

247. Which device give high output at low speed?

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

248. Which is the process of fuel bleeding system?

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

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

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

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

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

251. What is indicated horse power?

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

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

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

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

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

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

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

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

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

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

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

257. Which controls the EGR valve in modern vehicle?

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

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

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

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

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

260. How the lead acid Battery is classified?

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

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

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

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

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

263. What is flaring?

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

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

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

265. What is the purpose of the turbo charger?

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

266. Which engine is not required separate cooling system?

- A) Diesel engine
- B) Turbine engine

C) Marine engine

D) Petrol engine

267. What is ovality of a crank shaft?

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

B) Difference in dia measured only at bottom

C) Difference in dia measured only at top

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

268. Where the catalytic converters are used?

A) Fuel system

B) Exhaust system

C) Lubrication system

D) Inlet system

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

A) Clearance angle

B) Helix angle

C) Rake angle

D) Point angle

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

A) Stand

B) Hydraulic jack

C) Lifting crane

D) Slings chain

271. How can identify a four stroke engine?

A) Valves

B) Cavities

C) Ports

D) Passages

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

A) Fins

B) Bottom hole

C) Core tubes

D) Water pump

273. Which is the operation cycle of turbine?

A) Auto cycle

B) Adiabatic cycle

C) Brayton cycle

D) Diesel cycle

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

A) Cetane number

B) Octane number

C) Viscosity

D) Volatility

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

A) Excess supply of fuel at idle

B) Decrease the fuel pressure

C) Always holds correct level of fuel

D) Controls the air flow of the engine

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

A) Engine does not start

B) Engine gets over heating

C) Engine does not stop

D) Engine gets over cooling

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

A) Continuous running of the engine

B) Smooth running of the engine

C) Hard running of the engine

D) erratic running of the engine

278. Which automobile component produces dust?

A) Gear box

B) Brake shoe

C) Axle

D) Piston

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

A) Call taxi

B) Call your friend

C) Call fire service

D) Call emergency service

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

A) Electric hand drill light duty

B) Bevel gear hand drill

C) Electric hand drill heavy duty

D) Pneumatic hand drill

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

A) Multimeter

B) Dial gauge

C) Vernier caliper

D) Growler

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

A) Diesel cycle

B) Sterling cycle

C) Otto cycle

D) Rankin cycle

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

A) Connecting rods

B) Fly wheel

C) Differential

D) Gear boxes

284. What is the material used in hand reamer?

A) Brass

B) Cast iron

C) H. S.S

D) Mild steel

285. Which is the Ohm's Mathematical Expression?

A) $I=(V/R)$

B) $I=(R/V)$

C) $R=(I/V)$

D) $V=(I/R)$

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

A) Column drilling machine

B) Hand drilling machine

C) Radial drilling machine

D) Pillar drilling machine

287. Which part is lubricated by splash lubrication system?

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

288. Which engine is more hazardous?

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

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

- | | |
|--------------------|---------------|
| A) Foam | B) CTC |
| C) CO ₂ | D) Dry powder |

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

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

291. Which part connect the piston with connecting rod?

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

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

- | | |
|--------------------|--------------------|
| A) SO ₂ | B) NO ₂ |
| C) CO ₂ | D) CO |

293. What is the material of cylinder block?

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

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

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

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

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

296. Which is the semi conductor materials?

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

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

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

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

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

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

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

300. When the thermostat valve open in engine?

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

301. Where is connected the EVAP canister outlet?

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

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

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

303. What is the unit of cutting speed?

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

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

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

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

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

306. Which is connected with pison through piston pin?

- | | |
|----------------|-------------------|
| A) Cam shaft | B) Connecting rod |
| C) Gudgeon pin | D) Rocker arm |

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

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

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

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

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

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

310. Where is the turbocharger mounted?

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

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

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

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

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

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

- | | |
|-------------------|-------------------------|
| A) Conformability | B) Thermal conductivity |
| C) Surface action | D) Embedability |

314. Which is the power source of pneumatic system?

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

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

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

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

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

317. What is the material of exhaust manifold?

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

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

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

319. What is the working media in pneumatic system?

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

320. Where the gas turbines are used?

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

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

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

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

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

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

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

324. What is the material of inlet manifold?

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

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

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

326. Which digit indicate the engine type in 17 digit of vin number?

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

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

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

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

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

329. Which is the engine called as constant volume cycle?

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

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

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

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

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

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

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

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

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

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

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

335. Which type of fuel contains more carbon monoxide?

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

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

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

337. Which class of fire comes under flammable liquids

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

346. Which part of drill forms a cutting edge?

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

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

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

348. What is heat?

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

349. Which engine has fuel injection pump?

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

350. 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

351. Which area is restricted to smoking?

- A) Corporation limit area
- B) Water filling area
- C) Gram market area
- D) Fuel refilling area

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

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

353. Which component is related to exhaust system?

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

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

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

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

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

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

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

357. Which is the major energy conservation opportunity?

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

358. Which device is best for control toxic waste?

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

359. Which is used to operate the over running clutch drive pinion?

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

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

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

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

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

362. What is the mechanical efficiency of an engine?

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

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

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

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

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

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

- A) Oxygen
- B) Argon
- C) Nitrogen
- D) CO_2

366. Which is used to hold the die?

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

367. Which taper used in the drilling machine?

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

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

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

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

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

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

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

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

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

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

373. Which one is the indirect measuring instrument?

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

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

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

375. How the CRDI injectors pressure control valve operated?

- A) Electronically
- B) Manually
- C) Hydraulic
- D) Mechanically

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

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

377. How does a turbocharger get drive?

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

378. Where the catalytic converter is fitted?

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

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

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

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

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

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

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

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

- A) 8 Years
- B) 3 Years

C) 5 Years

D) 10 Years

383. 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) Make sure the power is turned off
- C) Place the victim on one side with head down
- D) Ask a by stander to help you to move the

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

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

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

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

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

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

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

- A) Ground nut oil
- B) Hydraulic oil
- C) Gingelly oil
- D) Coconut oil

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

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

389. 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

390. What is the material of piston pins?

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

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

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

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

- A) Easy starting
- B) Increase the power
- C) Prevent dirty smoke
- D) Mirror polishing finish in nozzle and body

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

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

394. Which is highly flammable liquid?

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

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

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

396. What is the material for cam shaft?

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

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

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

398. What is the purpose of catalytic converter?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

412. How many valves are used in radiator cap?

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

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

- | | |
|----------------------|---------------------|
| A) During valve open | B) During valve lag |
|----------------------|---------------------|

- C) During valve lead D) During valve overlap

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

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

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

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

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

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

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

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

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

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

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

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

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

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

421. Which one is the properties of lubricant

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

422. Which screw driver is used in blind space?

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

423. Which part drives the oil pump?

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

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

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

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

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

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

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

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

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

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

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

429. Which engine has more length?

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

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

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

431. 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

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

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