

ITI Quiz - 04-Mar-2026

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Q. ID: ITISKILL4632ED

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Question Paper

Duration: 30 Mins

Total Marks: 367

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Student Name: _____ Roll No: _____

1. What causes noisy gear box in neutral position?

- A) Synchronizing unit stuck B) Synchronizer defective
C) Bearing worn out or dry D) Synchronizer worn-out

2. Which system not connected with electrical system?

- A) Transmission system B) Steering system
C) Charging system D) Suspension system

3. Which type of spring suspension responds quickly to road shocks? |

- A) Helical spring B) Coil spring
C) Compression spring D) Transverse spring

4. What is the disadvantage of independent suspension system?

- A) More maintenance cost B) Shocks transmitted from one wheel to other
C) Vibration damping is less effective D) Spring weight is more

5. What is to be checked for low power generation of engine?

- A) Water level B) Battery condition
C) Clogged oil filter D) Clogged air cleaner

6. What causes abnormal tyre wear, tyre slip and poor steering stability?

- A) Presence of air in the break fluid B) Malfunctioning of torsion bar
C) Front axle bend/twist D) Incorrect toe - in and toe - out

7. What is the possible reason for gear slip?

- A) Wornout clutch plate B) Excessive end float of gear
C) Wrong clutch engagement D) Wrong selection gear shift lever

8. Which type of suspension spring made of fibre glass, laminated and bonded together by tough polyester resins?

- A) Fiber composite springs B) Coil springs
C) Monoleaf springs D) Multiple leaf springs

9. What is the advantage of multiplex network?

- A) Prevent malfunctioning of air bag system B) Determine vehicle tracking system
C) Improve vehicle safety system D) Reduce system cost and weight

10. What is the permitted diffraction angle of pot joint?

- A) 26 Degree B) 18 Degree
C) 22 Degree D) 20 Degree

11. What is the main feature of hydraulic actuated clutches?

- A) Pedal effort transmitted through linkage B) Pedal effort transmitted through coupling
C) Pedal effort transmitted through spring D) Pedal effort transmitted through fluid

12. What is the function of vehicle control module?

- A) Control actuators of engine B) Control engine and vehicle performance
C) Handle transmission D) Control anti clock brake system

13. Which type of gear will have more than one tooth in contact at the same time

- A) Spur gear B) Spur bevel gear
C) Helical gear D) Rack and Pinion

14. What is the advantage of dog clutch?

- A) Easy maintenance and repair B) More frictional area
C) Less pedal force to operate D) No possibility of slip

15. What is the reason of gear locked in one gear position?

- A) Gear teeth wornout B) Inadequate lubrication
C) Synchronizing unit stuck D) Synchronizer wornout

16. Why seat belt and air bag systems are necessary in the vehicle?

- A) To protect the driver and passenger B) Prevent the steering wheel from turning

- C) To track the stolen car D) Provide ventilation inside vehicle
-
- 17.** Which type of gear converts rotary motion in to linear motion and vice versa?
- A) Bevel gear B) Spur gear
C) Rack and Pinion D) Helical gears
-
- 18.** What is the purpose of spokes provided in the wheel?
- A) Provide accurate rounds of rim B) Support the chassis frame of vehicle
C) Provide directional stability of vehicle D) Distribute pre load evenly
-
- 19.** Why the alternate spokes are screwed to slope forward and backward towards the rim in the wire wheel?
- A) To observe braking and driving torque B) To distribute the load evenly
C) To take the uneven load D) To provide cushioning effect
-
- 20.** Where the starter motor located?
- A) Front side of engine B) Top side of engine
C) Bottom of engine D) Rear side of engine
-
- 21.** Which type of winding is connected to the starter switch in the solenoid switch?
- A) Pull in winding B) Compound winding
C) Primary winding D) Hold in winding
-
- 22.** Which type of independent suspension system simple in construction and allow more deflection of the front wheel without effect on the steering?
- A) Coil spring suspension B) Strut type suspension
C) Conventional suspension D) Torsion bar suspension
-
- 23.** Why the brushes are provided with a curvature at the bottom in the starting system?
- A) Prevent wear on commutator B) Ensure proper heat dissipation
C) Provide more contact with commutator D) Provide ventilation to commutator
-
- 24.** What is the function of magnetic clutch in air conditioning system?
- A) Connect and disconnect drive to compressor B) Absorbs moisture in the system
C) Cool the hot refrigerant D) Control the refrigerant flow to evaporator
-
- 25.** What is the effect of discharged battery?
- A) Abnormal noise in the engine B) Air lock in the fuel system
C) Engine does not crank D) Engine back fire
-
- 26.** What is the function of clutch?
- A) Prevent malfunctioning of fly wheel B) Increase and decrease the RPM of engine
C) Reduce the noise during engine running D) Connect and disconnect power flow engine to gear box
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- 27.** What is the cause of 'Wheel wobbling'?
- A) Drop in pressure B) King pin wornout
C) Improper tyre pressure D) Wrong hose size
-
- 28.** What is the function of distributor in the battery ignition system?
- A) Distribute high tension current from ignition coil to secondary winding B) Opens and closes the secondary circuit of coil
C) Distribute low tension current to ignition coil D) Distribute high tension current flow ignition coil to spark plugs
-
- 29.** What is the advantage of using constant mesh gear box?
- A) Wrong adjustment of gear will not affect the function B) Efficient lubrication possible
C) Quick change of gear obtained D) Smooth power transmission
-
- 30.** Which device acts as an evaporator temperature sensing switch?
- A) Heater switch B) Defroster switch
C) Thermostatic switch D) Blower switch
-
- 31.** What is the name of distance between most protruding portions on both sides of tyre?
- A) Thread radius B) Tyre height
C) Tyre outer diameter D) Tyre width
-
- 32.** Which part of tyre referred as 'Crown'?
- A) Thread radius B) Tyre width
C) Rim width D) Thread width
-
- 33.** What is the cause of electrodes burning in the spark plug?
- A) Plug runs too cold B) Incorrect tappet clearance
C) Incorrect fuel mixture D) Plug runs too hot
-
- 34.** What is the purpose of brake proportioning valves in the braking system?
- A) Provide balanced braking B) Increase braking efficiency

C) Reduces brake pedal effort

D) Prevent front wheel lockup

35. Which act regulate the payment of wages to certain class of persons?

- A) Minimum wages act 1948 B) Trade union act 1926
C) Equal remuneration act 1976 D) Payment of wages act 1936

36. What is the advantage of using non reactive suspension arrangement on multi-axle vehicles?

- A) Good braking efficiency in both rear wheels B) Better riding comfort
C) Prevention of ratting D) Increased spring life

37. What will be the result of improper brake adjustment?

- A) Hard steering B) Steering wheel play
C) Wheel wobbling D) Vehicle pulling to one side

38. What is the cause of hard gear shifting?

- A) Bearing worn out B) Synchronizing unit stuck
C) Fly wheel ring wornout D) Synchronizing unit damaged

39. Which type of spring will have good load carrying capacity and do not have noise in the suspension system?

- A) Multiple - leaf spring B) Coil spring
C) Monoleaf springs D) Fibre composite springs

40. What causes charges at high rate in the alternator?

- A) Open rectifier circuit B) Voltage regulator setting too low
C) Voltage regulator setting too high D) Open field current

41. Which factor does not affect the torque transmission by clutch?

- A) Number of clutch plates used B) Axial load on the clutch
C) Size of clutch plat D) Co-efficient of friction

42. Where the airbags are located in the air suspension system?

- A) Between high control valve and frame B) Between air pressure regulator and front axle
C) Between frame and vehicle axle D) Between brake tank and vehicle axle

43. Which angle helps in self centering of wheels after negotiating a turn?

- A) King pin inclination B) Castor angle

C) Camber angle

D) Included angle

44. What does the no: 14PR denotes in the tyre specification 9? x 14 - 14PR?

- A) Shoulder width B) Ply rating
C) Tyre thickness D) Bead circle dia

45. Which instrument indicate engine RPM in the engine control module?

- A) Tachometer B) Hydro meter
C) Galvano meter D) Pyno meter

46. What is the permitted brake pedal travel in the hydraulic brake system?

- A) 7 to 12 mm B) 2 to 12 mm
C) 6 to 12 mm D) 9 to 12 mm

47. Which type of suspension spring can not transfer wheel guidance forces?

- A) Coil springs B) Compression springs
C) Helical springs D) Leaf springs

48. What is the advantage of using nitrogen in the tyres?

- A) Observe shocks and vibration B) Provide positive road grip
C) Increase the tyre life D) Provide cusioning effect on the vehicle

49. How the tyre height is calculated?

- A) Tyre width + Bead circle dia B) Rim dia - tyre outer dia
C) Tyre outer dia - Rim dia D) Thread width + Tyre width

50. What is the use of two small lamps fitted front and rear of vehicle?

- A) B) Used for visibility
C) Used for parking on the road D) Provide illumination

51. Which part of bendix drive starting system limit the turning of the sleeve on the armature shaft?

- A) Pinion B) Bendix drive spring
C) Anti drift spring D) Fly wheel

52. What is the material used to make diodes?

- A) Alumina foil B) Silicon
C) Graphite D) Mica

53. Which type of head light provide 25% more light than sealed beam head lights?

- A) Neon type head light B) Halogon head light
C) LCD type head light D) LED type head light

54. How to confirm the satisfactory function of air bag system?

- A) Warning light on with engine running through
B) Air bag warning light come on during starting and stopping
C) Warning light on and flash few times and go out during starting
D) Peep sound on during starting

55. When the driver is warned of difference in tyre pressure?

- A) Difference in pressure more than 10% B) Difference in pressure exceeds 30%
C) Difference in pressure more than 20% D) Difference in pressure exceeds 40%

56. What will effect in case of over inflated tyres?

- A) Tyre will wear out at edges B) Tyre will crack at centre
C) Tyre will crack at edges D) Tyre will wearout at centre

57. Which electronic control system supplies optimum airfuel mixture to the combustion chamber under different driving condition?

- A) Fuel injection control system B) Oil pump control system
C) Idle speed control system D) Ignition control system

58. Why rubber buffer is provided in the main spring of suspension system?

- A) Protect chassis frame from heavy jerk B) Transfer pay load smoothly
C) Transfer the load equally D) Provide steering control stability

59. What causes horn sounds continuously even switch is in off position?

- A) Low battery voltage B) Fuse blown off
C) Incorrectly adjusted relay D) Relay point stuck up

60. What will be the effect of negative camber excessive in the wheel alignment?

- A) Outer edge of tyre wearout faster B) Inner edge of tyre wear out faster
C) Cracks developed in the tyre tread D) Centre of tyre wearout faster

61. What is the cause of ?Poor self centering? in a vehicle?

- A) Loose wheel level B) Improper wheel alignment
C) Filter choked D) Low oil level

62. Where the tyre pressure sensor secured in the wheel assembly?

- A) Bolted to the rim centre B) Secured in the tyre outer edges
C) Bolted to metal valve D) Secured in the wheel hub

63. What is the function of over running clutch in the starting system?

- A) Prevent sliding movement of pinion B) Protect armature from damage
C) Drive the armature shaft D) Operate the solenoid

64. Which is not the part of servo motor assembly?

- A) Normal DC motor B) Gear reduction unit
C) Position sensor D) Expansion valve

65. Which system provides DC power source for the various units of the vehicles?

- A) Charging system B) Lighting system
C) Steering system D) Storage system

66. Which type of wipers are used for heavy motor vehicles?

- A) Hand operated wiper B) Compressed air operated wiper
C) Vacuum operated wiper D) Hydraulically operated wiper

67. What is the effect of weak suspension?

- A) Vibration damping is more effective B) Unequal weight distribution of weight
C) Directional unstability of vehicle D) Carrying excessive payload of vehicle

68. Which sensor is used to sense vibration?

- A) Hall effect sensor B) Air vertex sensor
C) Vehicle speed sensor D) Engine knocking sensor

69. What is the aspect ratio in the tyre structure?

- A) Percentage ratio of tyre height to Rim width B) Ratio between tyre height to tyre dia
C) Ratio between tyre width to Rim width D) Percentage ratio of tyre height to tyre width

70. Which device permits air to the air brake system?

- A) Spring brake actuator B) Hand control valve
C) Brake valve D) System protection valve

71. What is the use of compact spare tyres?

- A) Used for high altitude B) Used for breakdown

- C) Withstand heavy load D) Withstand high temperature

72. How many spark plugs are ignited at the same time in the distributor less ignition system?

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

73. What is the disadvantage of independent suspension system?

- A) Shocks transmitted from one wheel to other B) Vibration damping is less effective
C) Spring weight is more D) More maintenance cost

74. What is the purpose of V pulley in the charging system?

- A) Drive the crank shaft B) Support rectifier mounting plates
C) Rotate the alternator rotor D) Drive the cam shaft

75. What is the cause of noise in steering?

- A) Presence of air in the fluid B) Defective torsion bar
C) High fluid level D) Defective flow control valve

76. Which light give indication to the traffic behind the vehicle for slowing down?

- A) Fog light B) Head light
C) Dome light D) Stop light

77. What is the function of Rim in the wheel construction?

- A) Support the axle B) Holds the tyre in correct position
C) Provides balancing of vehicle D) Distribute the load equally

78. Which type of DC starter motor generally used in automobiles?

- A) Shunt type B) Compound type
C) Series type D) Parallel type

79. Which circuit provide miniature bulbs to know the working gauges?

- A) Panel light circuit B) Stop light circuit
C) Head light circuit D) Parking light circuit

80. What is the function of EBD (Electronic Brake - Force Distribution) in anti lock brake system?

- A) It controls the slip of the rear wheel B) It control the slip of the front wheel
C) It increase brake pressure to the rear wheel D) It improve directional stability of vehicle

81. Which lighting circuit provided with dip and dim switch?

- A) Fog light circuit B) Panel light circuit
C) Parking light circuit D) Head light circuit

82. What is the binding material used in organic brake lining?

- A) Asbestos B) Resin
C) Fibre glass D) Mica

83. Which device in the air suspension system observe vibration of low amplitude and high frequency?

- A) Suspension spring B) Leaf spring
C) Shock absorber D) Air bags in the system

84. What will be the result of loose drive pulley in the alternator?

- A) Alternator noisy B) No change when engine running
C) Low voltage output from alternator D) Charges at high rate

85. Which is not the function of suspension system?

- A) It gives cushioning effects B) It increase steering stability
C) It transfer braking torque to the chassis D) It maintains body level

86. Which system provided between axles and chassis frame?

- A) Suspension system B) Steering system
C) Braking system D) Cooling system

87. What is the advantage of series winding type starter motor?

- A) Produce constant starting torque B) Less cost of maintenance
C) Produce high starting torque D) Increase the life of armature

88. Which type of ECU control the power windows of vehicle?

- A) EBCM B) ECM
C) BCM D) VCM

89. Why rubber buffer is provided in the main spring of suspension system?

- A) Transfer the load equally B) Provide steering control stability
C) Transfer pay load smoothly D) Protect chassis frame from heavy jerk

90. What is the function of diodes?

- A) Convert DC to AC B) Convert AC to DC
C) Step up voltage D) Step down voltage

91. What is the purpose of castor in wheel alignment?

- A) Convert steering torque input into voltage signal
- B) Maintain directional stability and control
- C) Reduce abnormal vibration
- D) Reduce tyre wear

92. What will be the effect of negative scrub radius?

- A) Wheel is caused to toe - out
- B) Wheel is caused to toe - in
- C) The tyre centre portion wear out
- D) Wheel is kept in straight position

93. What is the advantage of using non reactive suspension arrangement on multi-axle vehicles?

- A) Increased spring life
- B) Prevention of ratting
- C) Good braking efficiency in both rear wheels
- D) Better riding comfort

94. Which factor affecting suspension?

- A) More shocks, uncomfortable riding
- B) Abnormal tyre wear
- C) Wornout spring
- D) Damaged chassis frame

95. What is the adverse effect of fly wheel ring to starter pinion ratio is very high?

- A) Damage to starter motor
- B) Starter motor fails to start
- C) Increase the starting torque
- D) Reduce the starting torque

96. Which part of electronic power steering revert back to manual steering in case of failure in power steering?

- A) Fail safe relay
- B) Phase compensator
- C) Solenoid valve
- D) Current controller

97. What is the advantage of using nitrogen in the tyres?

- A) Increase the tyre life
- B) Provide cushioning effect on the vehicle
- C) Observe shocks and vibration
- D) Provide positive road grip

98. What is the function of solenoid switch?

- A) Stepdown voltage from primary to secondary winding
- B) Close the contact between battery and starting motor
- C) Shift the lever to engage the plunger
- D) Open and close the circuit between primary and secondary

99. What is the temperature limit set to ON/OFF for the radiator control system?

- A) ON and OFF at below 93 Degree Centigrade and 84 Degree Centigrade
- B) ON and OFF at below 98 Degree Centigrade and 93 Degree Centigrade
- C) ON and OFF at above 90 Degree Centigrade and 81 Degree Centigrade
- D) ON and OFF at above 98 Degree Centigrade and 93 Degree Centigrade

100. How the armature winding ends are connected with commutator?

- A) By brazing
- B) By welding
- C) By riveting
- D) By soldering

101. What is the purpose of air suspension?

- A) Reduce the space occupation
- B) Increase the directional stability
- C) Used for leveling purpose
- D) Reduce the suspension weight

102. Why synchromesh action is needed in a gear box?

- A) Damage the gear teeth during gear change
- B) Provide noise in gear shifting
- C) Easy gear shifting when vehicle in motion
- D) Prevent cushioning effect during gear shifting

103. Which type of suspension spring can not transfer wheel guidance forces?

- A) Coil springs
- B) Leaf springs
- C) Helical springs
- D) Compression springs

104. What is the range of steering ratio available in general?

- A) 11 : 2 to 22 : 2
- B) 8 : 2 to 22 : 2
- C) 11 : 1 to 24 : 1
- D) 10 : 1 to 18 : 1

105. What is the effect of defective injector?

- A) High fuel pressure
- B) Engine over heated
- C) Engine does not start
- D) High oil pressure

106. Which type of gear box can be operated even by unskilled driver?

- A) Compound wheel mesh gear box
- B) Constant mesh gear box
- C) Synchromesh gear box
- D) Sliding mesh gear box

107. Which system provided between axles and chassis frame?

- A) Steering system
- B) Braking system
- C) Cooling system
- D) Suspension system

108. How the tyre height is calculated?

- A) Thread width + Tyre width
- B) Tyre outer dia - Rim dia

- C) Rim dia - tyre outer dia D) Tyre width + Bead circle dia

109. Which light provide effective illumination during snowfall?

- A) Stop light B) Fog light
C) Head light D) Parking light

110. What is the necessity of square cut seals?

- A) Prevent the seal rolling in groove B) Provide cushioning effect
C) Withstand radial movement D) Prevent fluid leakage

111. What is the function ambient temperature sensor in the air conditioning system?

- A) Monitor air temperature at the exhaust B) Monitor air temperature in driver cabin
C) Monitor air temperature outside vehicle D) Monitor air temperature inside vehicle

112. Which system determine the vehicles location by forming a triangle with a group of four or more satallites?

- A) Triangulation B) Networking and Multiplexing
C) Reflective displays D) Telematic

113. What is reason for low oil pressure?

- A) Oil level is high B) Defective pressure release valve
C) Clogged oil filter D) Clogged air filter

114. What is the maximum air pressure supplied by the compressor in the air suspension system?

- A) 100 to 115 PSI B) 200 to 215 PSI
C) 120 to 125 PSI D) 180 to 210 PSI

115. Which is the heart of integral power steering system?

- A) Flow control valve B) Rotary control valve
C) Unloading valves D) Pressure relief valve

116. Which part of integral power steering reduce fluid pressure?

- A) Unloading valve B) Flow control valve
C) Rotary valve D) Torsion bar

117. What is the name of seal used between two parts that do not move in relation to each other?

- A) Dynamic seal B) Teflow seal
C) Static seal D) Square cut seal

118. What is the permitted diffraction angle of double joint?

- A) 72 Degree B) 58 Degree
C) 50 Degree D) 62 Degree

119. What is the advantage of using independent suspension system?

- A) Shocks are transmitted from one wheel to other B) This is simple arrangement
C) Spring weight is less D) Maintanance cost is less

120. Which steering system will provide assistance even when the engine is not running?

- A) Manual steering B) Linkage power steering
C) Integral power steering D) Electronic power steering

121. Which part provides flexible connection and permits smooth transfer of torque from gear box to the rear axle?

- A) Clutch shaft B) Fly wheel
C) Half shaft D) Universal joint

122. Why vibration damper are not used inside the helical spring?

- A) Not economical B) Fitting and removing time consuming
C) Possibility of stuck in one position D) No effect on load carrying capacity

123. Which facor affecting suspension?

- A) Abnormal tyre wear B) Damaged chassis frame
C) Wornout spring D) More shocks, uncomfortable riding

124. What is the working principle of clutch?

- A) Friction B) Sliding
C) Centripetal D) Screw and Nut

125. What causes abnormal tyre wear, tyre slip and poor steering stability?

- A) Incorrect toe - in and toe - out B) Presence of air in the break fluid
C) Front axle bend/twist D) Malfunctioning of torsion bar

126. What is the disadvantage of rigid axle suspension system?

- A) Maintanance cost is more B) Spring weight is less
C) This is a complicated arrangement D) Vibration damping is less effective

127. Which type of gear box provided with helical gears?

- A) Constant mesh gear box B) Sliding mesh gear box

- C) Synchromesh gear box D) Auto synchromesh gear box

128. What is the advantage of using run flat tyres?

- A) Provide equal distribution of load B) Less cost and maintenance
C) Resist vibration D) Eliminate need for spare tyre and jack

129. What is the permitted spark plug gap in general?

- A) 2.53 mm B) 2.92 mm
C) 2.83 mm D) 2.03 mm

130. What is the function of condenser?

- A) Convert refrigerant to vapour B) Cool the hot refrigerant
C) Absorbs moisture in the system D) Control the refrigerant flow

131. What is the function of thermo time switch in engine control module?

- A) Sense engine coolant temperature B) Sense exhaust gas temperature
C) Indicate fuel temperature D) Indicate lubricant temperature

132. What is the disadvantage of rigid axle suspension system?

- A) Maintenance cost is more B) Spring weight is less
C) This is a complicated arrangement D) Vibration damping is less effective

133. How much DC supply voltage required for servo motor?

- A) 4.8 V to 6 V B) 5V to 7.5 V
C) 4 V to 8 V D) 3.5 V to 8 V

134. Which type of wheel consist two separate discs are clamped together?

- A) Wire wheel B) Disc wheel
C) Split wheel D) Heavy vehicle

135. What is to be checked up if the engine overheats?

- A) Electrolyte level B) Fuel level
C) Hydraulic fluid level D) Coolant level

136. Which part of integral power steering reduce fluid pressure?

- A) Unloading valve B) Rotary valve
C) Torsion bar D) Flow control valve

137. Which is not the benefit of power steering?

- A) Absolute control during driving B) Quick response
C) Effort less steering D) Positive braking system

138. Which type of gear teeth are straight and parallel to the gear axis

- A) Spur gear B) Worm gear
C) Helical gear D) Bevel gear

139. What will be the effect of the long heat path travel in the spark plug?

- A) Life of spark plug increased B) Improper atomisation
C) Spark plug will run hot D) Spark plug will run cooler

140. What is the reason of steering wheel play excess?

- A) Low oil level B) Drop in pressure
C) Improper pre load defective steering D) Wornout sealing rings

141. Which device used to prevent damage to the battery and other electrical accessories?

- A) Distributor assembly B) Current regulator
C) Voltage regulator D) Alternator

142. Which sensor used to measure the magnitude of a magnetic field?

- A) Engine knocking sensor B) Air vertex sensor
C) Voltage sensor D) Hall effect sensor

143. What causes the defect of ?Hard steering? in the hydraulic power steering system?

- A) Tie rod loose fitting B) Improper size of tyre
C) Band axle beam D) Improper position of drop arm

144. What will be effect of unequal castor in the vehicle?

- A) Vehicle will not move B) Increase steering stability
C) Driver have to use less effort on steering D) Vehicle pull to one side wheel

145. Which type of flow mode is selected if outside is dusty and contaminated in car AC system?

- A) Fresh mode B) Heating mode
C) Recirculation mode D) Defroster mode

146. What will be the result of defective clutch?

- A) Gear slip B) Gear locked in one gear
C) Gear clash during shifting D) Noise in gear shifting

147. Which type of spring will have good load carrying

capacity and do not have noise in the suspension system?

- A) Fibre composite springs
- B) Multiple - leaf spring
- C) Monoleaf springs
- D) Coil spring

148. What is the purpose of breaker plate in the distributor?

- A) Conduct the ignition surge to the electrode
- B) Distribute high tension surge to ignition coil
- C) Prevents dirt, carbon into distributor
- D) Acts as contact breaker

149. What is the expansion of ICAT in the vehicle safety system?

- A) Indian computer advanced technology
- B) Intelligent computerized anti theft system
- C) Intelligent computer advanced techonlogy
- D) Indian combat advanced technology

150. What causes the deffect of ?Hard steering? in the hydraulic power steering system?

- A) Improper position of drop arm
- B) Band axle beam
- C) Improper size of tyre
- D) Tie rod loose fitting

151. Which part of ignition system connects and disconnects primary circuit?

- A) Distributor
- B) Contact breaker
- C) Condenser
- D) Ignition coil

152. Why tyre wear found abnormal in the vehicle?

- A) Improper linkage adjustment
- B) Improper tyre pressure
- C) Loose wheel nut
- D) Improper tol-in and tol - out

153. Which sensor used for safer parking of vehicle?

- A) Infrared sensor
- B) Air bag sensor
- C) Proximity sensor
- D) Crash sensor

154. What is the advantage of mechanical actuated type clutches?

- A) Less maintenance and repair
- B) Smooth functioning
- C) Easy to operate
- D) Less pedal effort

155. Which device in electronic power steering converts the steering torque input and its direction in to voltage signals?

- A) Rotation sensor
- B) Hall effect sensor
- C) Torque sensor
- D) Temperature sensor

156. How much is the current consumption of wind shield wiper motor?

- A) 1.8 to 3.2 Amps
- B) 2.2 to 3.2 Amps
- C) 3.5 to 5.2 Amps
- D) 2.7 to 3.4 Amps

157. Which part of air conditioning system absorbs moisture in the system?

- A) Condenser
- B) Receiver
- C) Expansion valve
- D) Evaporator

158. What is the impact of larger scrub radious?

- A) Unequal braking on the front wheel
- B) Wear on the centre part of tyre
- C) Bending of steering linkage point
- D) Wear on the outer edge of tyre

159. What is the purpose of beads and plys provided in the tyre?

- A) Resist vibration
- B) Prevent tyre slip
- C) Provide strength to tyre
- D) Provide grippness on the surface

160. What is the maximum air pressure supplied by the compressor in the air suspension system?

- A) 180 to 210 PSI
- B) 120 to 125 PSI
- C) 200 to 215 PSI
- D) 100 to 115 PSI

161. What is the brake pedal free play range permitted while adjusting?

- A) 8 mm to 10 mm
- B) 4 mm to 8 mm
- C) 13 mm to 18 mm
- D) 6 mm to 12 mm

162. What will be the effect of negative scrub radious?

- A) Wheel is caused to toe - out
- B) Wheel is kept in straight position
- C) The tyre centre portion wear out
- D) Wheel is caused to toe - in

163. Which advantage does not suit to wheel alignment?

- A) Achieve self centering after turning
- B) Minimise tyre wear
- C) Achieve easy torque transmission
- D) Reduce driver effort

164. Which advantage does not suit to wheel alignment?

- A) Minimise tyre wear
- B) Achieve self centering after turning
- C) Reduce driver effort
- D) Achieve easy torque transmission

165. Which part of air conditioning system remove heat from air and transfer to the refrigerant?

- A) Blower
- B) Receiver

C) Condenser

D) Evaporator

166. Which type of horn consist electically driven air pump forces air through plastic trumpet?

A) Electric horn

B) Wind horn

C) Wind horn

D) Air horn

167. Why vibration damper are not used inside the helical spring?

A) No effect on load carrying capacity

B) Fitting and removing time consuming

C) Not economical

D) Possibility of stuck in one position

168. What is the cause for high fuel consumption in diesel engine?

A) High compression pressure

B) Oil level high

C) Piston ring worn-out

D) Fuel level in tank is high

169. Where the tyre pressure sensor secured in the wheel assembly?

A) Bolted to metal valve

B) Secured in the tyre outer edges

C) Bolted to the rim centre

D) Secured in the wheel hub

170. Which part of dual mass fly wheel isolate the fly wheel mass system of the engine?

A) Gear box

B) Cam shaft

C) Vibration damper

D) Crank shaft

171. What is the use of compact spare tyres?

A) Used for breakdown

B) Withstand heavy load

C) Used for high altitude

D) Withstand high temperature

172. Which sensor causes off the outside air inlet or other odours?

A) Infrared sensor

B) Smog sensor

C) Sunload sensor

D) Temperature sensor

173. How the EBD (Electronic Brake Force Distribution) failure indicated to the driver?

A) Peep sound in the cabin

B) Indication lamp the dash board

C) Glowing the parking lamp

D) Flickering the tail lamp

174. Which type of spring suspension responds quickly to road shocks? |

A) Compression spring

B) Helical spring

C) Transverse spring

D) Coil spring

175. What is the advantage of EFI engine management system?

A) Better starting and acceleration

B) Increased thermal efficiency

C) Effective fuel distribution achieved

D) Increased mechanical efficiency

176. What is the advantage of using run flat tyres?

A) Eliminate head for spare tyre and jack

B) Less cost and maintance

C) Provide equal distribution of load

D) Resist vibration

177. What is the advantage of using power steering system?

A) To turn and control vehicle with less effort

B) To enhance the fuel efficiency

C) To increase the engine power

D) To reduce the fuel consumption

178. Which sensor located in the intake manifold or throttle body?

A) Hall effect sensor

B) Oxygen sensor

C) Air vertex sensor

D) Mass air flow sensor

179. What is the advantage of using servo motor in air conditioning system?

A) Suitable to prevent vibration

B) Low cost of maintenance

C) High speed operation possible

D) Suitable for precision control of rotation

180. What is the contributory cause for the engine hard to start - cold?

A) Thermo time switch faulty

B) Defective oil pressure

C) Damaged radiator

D) Faulty fuel filter

181. Which type of ECU control actuators of engine?

A) VCM

B) ECM

C) TCM

D) EBCM

182. What should be the high air flow rate permitted while doing performance checking in automobile AC system?

A) 4 kg per min

B) 6 kg per min

C) 10 kg per min

D) 8 kg per min

183. What is the gas filled in the sealed beam head lights?

A) Nitrogen gas

B) Hydrogen gas

C) Oxygen gas

D) Argon gas

184. Which type of independent suspension system simple in construction and allow more deflection of the front wheel without effect on the steering?

- A) Strut type suspension B) Torsion bar suspension
C) Coil spring suspension D) Conventional suspension

185. What is the range of steering ratio available in general?

- A) 11 : 2 to 22 : 2 B) 8 : 2 to 22 : 2
C) 11 : 1 to 24 : 1 D) 10 : 1 to 18 : 1

186. Where the engine control module installed in the engine?

- A) Near the fly wheel B) Front side of radiator
C) In the gear box assembly D) Under side of instrument panel

187. Which part of heavy vehicle deals with static and dynamic loads without deflection or distortion?

- A) Engine B) Power trains
C) Control system D) Chassis and frames

188. Which type of drive line used in high gears and high speed applications?

- A) Front wheel drive line B) Center wheel drive line
C) Rear wheel drive line D) All wheel drive line

189. What is the advantage of coil spring?

- A) High steering and stability B) Good load carrying capacity
C) Low space requirement D) Provide greater pay load

190. What is the impact of larger scrub radius?

- A) Bending of steering linkage point B) Wear on the centre part of tyre
C) Unequal braking on the front wheel D) Wear on the outer edge of tyre

191. How much is the difference in resistance is permitted in the temperature sensor unit?

- A) More than 200 ohms B) More than 100 ohms
C) More than 400 ohms D) More than 150 ohms

192. What is the recommended valve of combined angle in the steering system?

- A) 15 - 18 Degree B) 12 - 15 Degree
C) 9 - 10 Degree D) 5 - 8 Degree

193. Why the alternate spokes are screwed to slope forward and backward towards the rim in the wire wheel?

- A) To take the uneven load B) To provide cushioning effect
C) To distribute the load evenly D) To observe braking and driving torque

194. What is the reason of faster wear out of tyre edges?

- A) Under inflated tyre B) Defective suspension system
C) Over inflated tyre D) Unequal load distribution

195. What is the precautionary measures to be adapted while removing secondary piston to prevent damage

- A) Remove the stopper bolt before B) Remove the return spring before
C) Remove the circlip before D) Remove the retaining spring before

196. Which is the most commonly used wiper in all motor vehicles?

- A) Compressed air operated wipers B) Hydraulically operated wipers
C) Electrically operated wipers D) Vacuum operated wipers

197. What is the role of recirculating balls in the integral power steering?

- A) Affect steering stability B) Provide hard steering
C) Combine high mechanical efficiency with smooth operation D) Prevent control in event of hydraulic failure

198. Which part of coil spring allows angular movement of linkages?

- A) Stabiliser bar B) Torsion bar
C) Lower control arm D) Ball joint

199. Which type of sensor used to monitor the injection timing and ignition timing of engine?

- A) Pressure sensor B) Throttle position sensor
C) Crank and cam, shaft position sensor D) Engine knocking sensor

200. What is the advantage of using independent suspension system?

- A) This is simple arrangement B) Spring weight is less
C) Maintenance cost is less D) Shocks are transmitted from one wheel to other

201. What is the function of steering system?

- A) To increase the engine RPM B) To control the braking system
C) To guide the vehicle D) To control the fuel system

202. What is the main cause for wear on one side of tyre?

- A) Over inflation B) Improper camber
C) Under inflation D) Improper caster

203. Which part of cold start system allow additional air to bypass the throttle plate?

- A) Auxiliary air valve
- B) Oxygen sensor
- C) Air supply relay
- D) Thermo time switch

204. What is the cause for engine fails to start?

- A) Defective starter motor
- B) Defective water pump
- C) Defective oil pump
- D) Defective thermostat

205. What is the average power steering gear ratio followed in general?

- A) 20% less than manual steering
- B) 10% more than manual steering
- C) 40% less than manual steering
- D) Equal to manual steering

206. What is the contributory cause of starter motor running but not cranking?

- A) Poor contacting action of ignition
- B) Abnormally worn brush
- C) Over running clutch slipping
- D) Faulty ECM circuit

207. What is the reason of faster wear out of tyre edges?

- A) Over inflated tyre
- B) Under inflated tyre
- C) Defective suspension system
- D) Unequal load distribution

208. Which is not the function of suspension system?

- A) It transfer braking torque to the chassis
- B) It maintains body level
- C) It increase steering stability
- D) It gives cushioning effects

209. What is the firing order for four cylinder engine?

- A) 1,2,3,4
- B) 1,3,4,2
- C) 2,3,1,4
- D) 3,1,4,2

210. Which device in electronic power steering converts the steering torque input and its direction in to voltage signals?

- A) Rotation sensor
- B) Torque sensor
- C) Hall effect sensor
- D) Temperature sensor

211. What will be the result of worn teeth of ring gear in the starting system?

- A) Starter motor running too slow
- B) Starter motor running but not cranking
- C) Motor running but too fast
- D) Motor not running no operating sound of magnetic switch

212. Which type of shock absorber absorbs shocks with the

help of friction disc and spring?

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

213. What is the advantage of TCS/ELSD brake circuit of wheel?

- A) Reduce fluid pressure
- B) Reduce the pressure at wheel cylinder
- C) Avoid wheel lockup by releasing pressure
- D) Automatic adjustment of engine torque to the grip rates

214. Which type of manual provide information about engine no, chassis no and engine capacity?

- A) Labour guide
- B) Owners manual
- C) Shop manual
- D) Repair manual

215. What is the purpose of dome light circuit?

- A) Interior illumination
- B) Panel board gauges indication
- C) Provide enough visibility to driver
- D) Used for parking vehicle on road

216. What causes no charge when engine is running?

- A) Drive belt loose
- B) Shorted rectifier
- C) Sticky regulator
- D) Brushes not seating properly

217. Which type of gear box eliminates the defect of gear wheels move on the shaft to mesh with each other?

- A) Compound wheel mesh gear box
- B) Sliding mesh gear box
- C) Constant mesh gear box
- D) Synchromesh gear box

218. Where the red colour indicator lamps are provided in the vehicle?

- A) Pilot lamp
- B) Side of vehicle
- C) Front side
- D) Rear side

219. What is the purpose of condensor in the ignition system?

- A) Prevents arcs at the points
- B) Open and close the primary circuit
- C) Insulate spark plug electrodes
- D) Distribute high tension current to spark

220. Which principle is applicable for hydraulic brakes?

- A) Boyle's law
- B) Hooke's law
- C) Newton's law of motion
- D) Pascal's law

221. What is the effect of weak suspension?

- A) Carrying excessive payload of vehicle
C) Directional unstability of vehicle

- B) Vibration damping is more effective
D) Unequal weight distribution of weight

222. What is the function of rotor assembly?

- A) Allow the current flow in one direction
C) Carriers driving pulley and cooling fan
B) Supports rectifier mounting plates
D) Supports pre lubricated scaled bearing

223. What is the possible cause for immobilizer antenna error?

- A) ECM problem
C) Unregistered ignition key
B) Blown fuse
D) Poor transponder in key

224. What is the effect on engine performance if air leak in the induction system observed?

- A) Engine cranks but will not start
C) Pressure regulator
B) Engine produce abnormal noise
D) Engine hard to start - Hot

225. What does the 3rd digit code no 9. indicate system trouble in scan tool letter codes?

- A) Ignition system
C) Computer system
B) Emission system
D) Input/out signal and controls

226. What is the advantage of using side indicator in a vehicle?

- A) Prevent accident while turning left and right
C) Provide enough visibility
B) Provide effective illumination
D) Indicate the vehicle behind

227. What is the minimum RPM of crank shaft required to start the engine?

- A) 150 RPM
C) 100 RPM
B) 180 RPM
D) 200 RPM

228. Which part of tyre referred as 'Crown'?

- A) Tyre width
C) Thread radius
B) Rim width
D) Thread width

229. What is the effect of defective oil pump?

- A) High oil pressure
C) Detonation occur
B) Engine seized
D) Low oil pressure

230. What is the cause of ? low pressure? in the hydraulic power steering system?

- A) Low oil level
B) Wornout sealing ring

- C) Air in the system
D) Wrong flow control valve setting

231. What is the advantage of electronic power steering?

- A) Less occupation of space
C) Energy being consumed only while steering
B) Compact in size
D) Number of components are less

232. Which type of sensor located at the exhaust manifold?

- A) Air vertex sensor
C) Oxygen sensor
B) Hall effect sensor
D) Mass air flow sensor

233. What is the advantage of electronic power steering?

- A) Less occupation of space
C) Number of components are less
B) Energy being consumed only while steering
D) Compact in size

234. What is the recommended valve of combined angle in the steering system?

- A) 5 - 8 Degree
C) 9 - 10 Degree
B) 12 - 15 Degree
D) 15 - 18 Degree

235. What is the reason of steering wheel play excess?

- A) Wornout sealing rings
C) Drop in pressure
B) Improper pre load defective steering
D) Low oil level

236. What is the function of drive end frame in the alternator?

- A) Carriers driving pulley
C) Support the pre lubricated sealed bearing
B) Connecting to spring loaded brush
D) Allow current flow in one direction

237. What is the disadvantage of excessive positive camber in the wheel aslignment?

- A) Tyre bleeding wire wear out
C) Tyre centre will wearout
B) Tyre thread wear out
D) Tyre outer edge will wearout fast

238. What is the use of cornering light in a vehicle?

- A) Indicate traffic behind vehicle
C) Provide enough visibility to driver
B) Provide interior illumination
D) Highlight the blind spot during bend

239. Which way the steering system increase the tire life?

- A) Providing proper brake adjustment
B) By applying grease on the steering controls

- C) By maintaining proper angle between tyres D) Providing adequate lubrication

240. What is the permitted diffraction angle of tripod joint?

- A) 32 Degree B) 18 Degree
C) 26 Degree D) 13 Degree

241. What is the expansion of GPS in vehicle safety system?

- A) Global Preventing Systems B) General Positioning Satellites
C) Global Positioning Satellites D) Global Placing Satellites

242. What is the material constituent of semi metallic brake lining?

- A) Aluminium oxide B) Carbon fiber
C) Fine polished steel wool D) Carbon composite

243. What is the purpose of engine immobilizer?

- A) Prevent from starting the engine B) Used to operate horn relay
C) Electric opening and closing of door D) o compensate from sun light entering vehicle

244. How the tyre is specified?

- A) Shoulder width, Tyre thickness B) Ply rating, tyre inner circle dia, shoulder width
C) Shoulder width, Boad circle dia. Ply rating D) Shoulder dia, Bead circle dia, Ply rating

245. Which law states that the induction of electromotive force in any closed circuit is equal to the rate of change of magnetic flux?

- A) Ohms law B) Charles law
C) Law of resistance D) Faradays law

246. What is the purpose of seat belt pre tensioners?

- A) Protect the occupant from head injury B) Detect passengers weight
C) Hold the ocupant tightly in the seat D) Prevent the side way movement of seat

247. What is the cause of ?Poor self centering? in a vehicle?

- A) Improper wheel alignment B) Loose wheel level
C) Low oil level D) Filter choked

248. What is the use of tail light?

- A) Provide interior illumination B) Indication to slowing down
C) Provide enough visibility D) Indication to vehicle behind

249. What is the cause of noise in steering?

- A) Defective torsion bar B) High fluid level
C) Defective flow control valve D) Presence of air in the fluid

250. What is the achived through spark plug end gap design?

- A) Increase the fuel pressure B) Improve combustion swirl
C) Helps for the complete ignition D) Improve fuel atomisation

251. Which type of gear will not produce axial thrust but it neutralizes the axial thrust?

- A) Spur gear B) Herring bone gears
C) Worm gear D) Bevel gear

252. Which wire of servo motor connected to power supply?

- A) Red B) Yellow
C) White D) Black

253. Which manual provide information regarding employment in india laws framed by state and central goverments?

- A) Owners manual B) Labour guide
C) Repair manual D) Shop manual

254. Which type of seal allows a controlled amount of fluid leakage to lubricant moving parts?

- A) Dynamic seal B) Non - positive seal
C) Positive seal D) Static seal

255. What is the expansion of LED?

- A) Limited electrical data B) Light emitting diodes
C) Light electronic diodes D) Long electrical diodes

256. What is the purpose of slot provided in the laminated cylindrical iron core of stator assembly?

- A) Provide space for cooling B) For lubricantion
C) For easy fitting D) For fitting insulated windings

257. What is the cause of horn does not produce any sound?

- A) Tone disc damaged B) Low voltage at horn terminal
C) Fuse blown off D) Relay point stuck up

258. What is the necessicity of wiper unit?

- A) To provide easy steering B) To provide balancing of vehicle
C) To see road and traffic clearly D) To reduce effort on the steering

259. Which part of electronic fuel injection system controls opening of bypass air passage?

- A) Throttle valve
- B) Idle air control valve
- C) Check valve
- D) Pressure relief valve

260. How to rectify the defect of noise in hydraulic steering?

- A) Replace the with new fluid
- B) Replace the flow control valve
- C) Adjust the torsion bar linkage
- D) Fill fluid to correct level and bleed the system

261. What is the purpose of alternator?

- A) Produce more electricity at high RPM
- B) Produce more electricity at low RPM
- C) Produce variable electric supply at high RPM
- D) Produce constant electric supply at high RPM

262. What is the colour of pilot lamp provided in the vehicle?

- A) Orange
- B) Green
- C) Red
- D) White

263. What is the use of single red lamp of 24 watts fitted at the rear?

- A) Provide interior illumination
- B) Provide enough visibility
- C) Give indication the traffic behind
- D) Help driver to see full width of road

264. Which type of synchromesh gear box used for heavy commercial vehicles?

- A) Porche type
- B) Baulk type
- C) Baulk ring type
- D) Multi and double cone type

265. Which type of shock absorber maintain vehicle ride at a pre - set level according to the load placed over the rear axle?

- A) Mechanical shock absorber
- B) Automatic load adjustable shock absorber
- C) Gas pressurised shock absorber
- D) Hydraulic shock absorber

266. What is the purpose of castor in wheel alignment?

- A) Reduce abnormal vibration
- B) Maintain directional stability and control
- C) Convert steering torque input into voltage signal
- D) Reduce tyre wear

267. Which system making the drive cabin comfortable for driving?

- A) Charging system
- B) Steering system
- C) HVAC system
- D) Starting system

268. What is the battery system used for heavy vehicles?

- A) 12 volts
- B) 24 volts
- C) Provide caution to the driver
- D) 6 volts

269. Which device detect the driven wheel spin through sensor?

- A) EBD
- B) ECU
- C) TCS
- D) ELSD

270. What is the function of ignition coil?

- A) Disconnect the secondary circuit to
- B) Step up low voltage to high voltage
- C) Step down high voltage to low voltage
- D) Connect the primary circuit to ignition switch

271. What is the role of ABS brakes?

- A) Increase frictional power
- B) Prevents skidding of vehicles
- C) Provide positive braking
- D) Reduce the brake failures

272. What is the purpose of indexing pin provided in the bulb case?

- A) Complete the circuit
- B) For easy identification
- C) Retain the bulb in the socket
- D) Prevent damage to light

273. What is the working principle of alternator?

- A) Lenz's law
- B) Law of resistance
- C) Ohms law
- D) Electromagnetic induction

274. Why light weight cars use low steering ratio?

- A) To obtain large steering effect
- B) To obtain low steering effect
- C) To obtain constant steering effect
- D) To obtain no steering effect

275. What is the special feature of cold start system?

- A) Provide additional fuel during starting
- B) Provide positive starting
- C) Determine timing and sequence of fuel injection
- D) Intake manifold

276. Which part of coil spring allows angular movement of linkages?

- A) Lower control arm
- B) Torsion bar
- C) Stabiliser bar
- D) Ball joint

277. What is the disadvantage of excessive positive camber in the wheel aslignment?

- A) Tyre centre will wearout
- B) Tyre thread wear out

- C) Tyre bleeding wire wear out D) Tyre outer edge will wearout fast

278. Which part of electronic power steering revert back to manual steering in case of failure in power steering?

- A) Solenoid valve B) Current controller
C) Phase compensator D) Fail safe relay

279. What will be the effect of negative camber excessive in the wheel alignment?

- A) Inner edge of tyre wear out faster B) Outer edge of tyre wearout faster
C) Cracks developed in the tyre tread D) Centreof tyre wearout faster

280. Which is the cause for high oil consumption?

- A) Worn-out valve guides B) Oil viscosity high
C) Oil filter clogged D) Low oil level

281. Which type of wheel consist two separate discs are clamped together?

- A) Disc wheel B) Split wheel
C) Heavy vehicle D) Wire wheel

282. What is the cause of window glass is not lifting while motor running properly?

- A) Glass door channels unserviceable B) Window glass lifting regulator defective
C) Power window switch defective D) Motor is defective

283. Which device in the air suspension system observe vibration of low amplitude and high frequency?

- A) Air bags in the system B) Shock absorber
C) Suspension spring D) Leaf spring

284. What is the boiling point of refrigerant R-134a?

- A) 26.5 Degree Centigrade B) 20.5 Degree Centigrade
C) 27.8 Degree Centigrade D) 22.0 Degree Centigrade

285. How to rectify the defect of noise in hydraulic steering?

- A) Adjust the torsion bar linkage B) Fill fluid to correct level and bleed the system
C) Replace the with new fluid D) Replace the flow control valve

286. What is the cause of low voltage output from alternator?

- A) Faulty regulator B) Loose drive pully
C) Loose mountings D) Wornout bearing

287. What will effect in case of over inflated tyres?

- A) Tyre will wear out at edges B) Tyre will crack at centre
C) Tyre will crack at edges D) Tyre will wearout at centre

288. What is the mechanical cause of engine does not start?

- A) Fuel tank cap vent hole blocked B) Oil filter blocked
C) Oil pump gear worn out D) Radiator cap blocked

289. Which type of system is to isolate the vehicle body from road shock and vibration?

- A) Steering system B) Hydraulic system
C) Control system D) Suspension system

290. Which gear will produce clicking noise during teeth contact?

- A) Worm gear B) Bevel gear
C) Spur gear D) Helical gear

291. What is the steering linkage ratio if the pitman arm length twice of steering arm length?

- A) 02:03 B) 02:01
C) 02:01 D) 01:02

292. What does the third digit of system trouble code no.6 deals with in scan tool letter code?

- A) Emission system B) Ignition system
C) Computer system D) Transmission system

293. Which is the heart of integral power steering system?

- A) Flow control valve B) Pressure relief valve
C) Rotary control valve D) Unloading valves

294. What is the advantage of using single plate hydraulic clutch?

- A) Reduce the wear on the clutch plate B) Effective frictional force obtained
C) Easy repair and maintance D) Minimize the force to operate the clutch

295. What is the cause of 'Wheel wobbling'?

- A) Drop in pressure B) King pin wornout
C) Wrong hose size D) Improper tyre pressure

296. Where the airbags are located in the air suspension system?

- A) Between air pressure regulator and front axle B) Between frame and vehicle axle
C) Between high control valve and frame D) Between brake tank and vehicle axle

297. Why power windows are provided with lock out switch controlled by a driver?

- | | |
|------------------------------|--------------------------------|
| A) Improve easy handling | B) Provide effective operation |
| C) Prevent damage to windows | D) Prevent accident |

298. What is the possible cause of engine runs erratically?

- | | |
|-------------------------|----------------------------|
| A) High compression | B) Weak compression |
| C) Poor oil circulation | D) Air lock in fuel system |

299. What will be effect of unequal castor in the vehicle?

- | | |
|---|-----------------------------------|
| A) Driver have to use less effort on steering | B) Vehicle pull to one side wheel |
| C) Increase steering stability | D) Vehicle will not move |

300. Why horn produces low improper sound?

- | | |
|--------------------------|----------------------------|
| A) Cracked diaphragm | B) Fuse blown off |
| C) Relay points stuck up | D) Open field coil winding |

301. What is the purpose of 'G' sensor

- | | |
|---|---|
| A) Measuring deceleration rate of vehicle | B) Locking pressure inside wheel cylinder |
| C) Detect wheel lock up condition | D) Reduce pressure at wheel cylinder |

302. What is the purpose of tachometer?

- | | |
|---------------------------------|--------------------------|
| A) Indicate engine RPM | B) Indictae fuel level |
| C) Indicate coolant temperature | D) Indicate oil pressure |

303. What is the cause for high oil consumption?

- | | |
|------------------------|-----------------------|
| A) Clogged air cleaner | B) Weak compression |
| C) Coolant level | D) Clogged oil filter |

304. Which steering system will provide assistance even when the engine is not running?

- | | |
|----------------------------|------------------------------|
| A) Integral power steering | B) Linkage power steering |
| C) Manual steering | D) Electronic power steering |

305. Which angle helps in self centering of wheels after negotiating a turn?

- | | |
|-------------------------|-----------------|
| A) King pin inclination | B) Camber angle |
| C) Included angle | D) Castor angle |

306. What is the name of distance between most protruding portions on both sides of tyre?

- | | |
|------------------------|----------------|
| A) Tyre outer diameter | B) Tyre width |
| C) Thread radius | D) Tyre height |

307. Which sensor measures the actual body temperature of passengers?

- | | |
|--------------------|--------------------------------|
| A) Sun load sensor | B) Interior temperature sensor |
| C) Smog sensor | D) Infrared sensor |

308. What causes 'Air suction' in pump of hydraulic power steering system?

- | | |
|---------------------|------------------------|
| A) Noise | B) Low pressure |
| C) High fluid level | D) Steering wheel play |

309. Why anti drift spring is provided in the bendix drive starting system?

- | | |
|--------------------------------------|--|
| A) Prevent pinion striking fly wheel | B) Avoid the side way movement of armature shaft |
| C) Provide grip over armature shaft | D) Resist wear on the fly wheel |

310. Which part connects propeller shaft?

- | | |
|-------------------------------|-------------------------------|
| A) Crankshaft and final drive | B) Clutch shaft and fly wheel |
| C) Cam shaft and clutch shaft | D) Gear box and final drive |

311. What is the material used to make brake drum?

- | | |
|----------------------|--------------------------|
| A) High carbon steel | B) Stainless steel |
| C) High speed steel | D) Special type castiron |

312. How the tyre is specified?

- | | |
|--|--|
| A) Shoulder dia, Bead circle dia, Ply rating | B) Shoulder width, Boad circle dia. Ply rating |
| C) Shoulder width, Tyre thickness | D) Ply rating, tyre inner circle dia, shoulder width |

313. What causes 'Air suction' in pump of hydraulic power steering system?

- | | |
|------------------------|---------------------|
| A) Noise | B) High fluid level |
| C) Steering wheel play | D) Low pressure |

314. What is the steering linkage ratio if the pitman arm length twice of steering arm length?

- | | |
|----------|----------|
| A) 02:01 | B) 02:01 |
| C) 01:02 | D) 02:03 |

315. Why many engines use spark plugs with tapered seats?

- | | |
|------------------------------|--------------------------|
| A) Provide clearance space | B) Helps in easy fitting |
| C) Produce correct alignment | D) Produce good sealing |

316. Why light weight cars use low steering ratio?

- | | |
|------------------------------------|---------------------------------------|
| A) To obtain low steering effect | B) To obtain no steering effect |
| C) To obtain large steering effect | D) To obtain constant steering effect |

317. What is the purpose of spokes provided in the wheel?

- A) Provide accurate rounds of rim
- B) Distribute pre load evenly
- C) Provide directional stability of vehicle
- D) Support the chassis frame of vehicle

318. Which rating indicate the braking capabilities of the tire to the consumer?

- A) Tyre rating
- B) Traction rating
- C) Temperature rating
- D) Ply rating

319. How to rectify the hard gear shifting?

- A) Re - install springs correctly
- B) Lubricate the unit
- C) Check and realign
- D) Adjust clutch pedal free play

320. Where the ambient temperature sensor is located in the vehicle?

- A) Behind the grill
- B) Front axle
- C) Rear side of engine
- D) Top of servo motor

321. What is the possible cause of high fuel consumption?

- A) Low fuel in the tank
- B) High compression pressure
- C) High fuel in the tank
- D) Wrong injection timing

322. Why it is necessary to disengage the starter pinion from fly wheel ring gear once the engine has started?

- A) Reduce the wear on commutator
- B) Prevent wastage of current
- C) Prevent damage to starter motor
- D) Increase the fuel efficiency

323. Which is not the benefit of power steering?

- A) Effort less steering
- B) Absolute control during driving
- C) Positive breaking system
- D) Quick response

324. What is the advantage of dual mass fly wheel?

- A) Reduction of gear box and body noises
- B) Prevent wrong clutch engagements
- C) Transmit the torque with less effort
- D) Reduce the possibility of clutch slip

325. Which type of joint permit small diffraction angle and linear variations?

- A) Flexible discs
- B) Double joint
- C) Pot joint
- D) Tripod joint

326. What is the function of Rim in the wheel construction?

- A) Holds the tyre in correct position
- B) Support the axle
- C) Distribute the load equally
- D) Provides balancing of vehicle

327. What is the motive of vehicle information report?

- A) Provide information about vehicle safety
- B) Provide information about vehicle registration history
- C) Provide information about tracking of vehicle
- D) Provide information about warming system

328. Which system deals with alternator?

- A) Starting system
- B) Charging system
- C) Steering system
- D) HVAC system

329. Which type of shock absorber absorbs shocks with the help of friction disc and spring?

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

330. Which sensor is used to alert the driver of unseen obstacles?

- A) Torque sensor
- B) Pressure sensor
- C) Parking sensor
- D) Speed sensor

331. Which type of manual give details about sequence of operation of the vehicle?

- A) Shop manual
- B) Labour guide
- C) Owners manual
- D) Repair manual

332. What is the role of recirculating balls in the integral power steering?

- A) Provide hard steering
- B) Affect steering stability
- C) Prevent control in event of hydraulic failure
- D) Combine high mechanical efficiency with smooth operation

333. What will be the result of improper brake adjustment?

- A) Vehicle pulling to one side
- B) Wheel wobbling
- C) Hard steering
- D) Steering wheel play

334. Which type of synchromesh gear box will produce torque more than three times of other types?

- A) Multi and Double cone
- B) Porche type
- C) Baulk type
- D) Baulk ring type

335. Which rating indicate the braking capabilities of the tire to the consumer?

- A) Traction rating
- B) Tyre rating
- C) Ply rating
- D) Temperature rating

336. What does the first unit identify in the scan tool letter code?

- | | |
|----------------------------------|---------------------|
| A) Manufacturer unique number | B) Specific failure |
| C) Trouble code reference system | D) Type of error |

337. Why a diesel engine starts but not running idle?

- | | |
|---------------------------|--------------------------|
| A) Low charged battery | B) Clogged nozzle |
| C) Low fuel level in tank | D) No air in fuel system |

338. Which instrument is used to check the face out of the fly wheel?

- | | |
|-----------------------|----------------------|
| A) Dial indicator | B) Bore dial gauge |
| C) Outside micrometer | D) Inside micrometer |

339. What is the purpose of beads and plies provided in the tyre?

- | | |
|-------------------------------------|-----------------------------|
| A) Prevent tyre slip | B) Provide strength to tyre |
| C) Provide grippness on the surface | D) Resist vibration |

340. Which device inflate the air bag in few milli seconds during vehicle collision?

- | | |
|-----------------------------|------------------|
| A) Inflator module | B) Steering lock |
| C) Seat belt pre tensioners | D) GPS tracker |

341. Which type of clutch provides more frictional area and simple in construction?

- | | |
|----------------|----------------------------|
| A) Cone clutch | B) Multi plate clutch |
| C) Dog clutch | D) Diaphragm spring clutch |

342. Which type of shock absorber is easy for replacement and handling?

- | | |
|--------------------|--------------------|
| A) Telescopic type | B) Vane type |
| C) Piston type | D) Mechanical type |

343. What does the no: 14PR denotes in the tyre specification 9? x 14 - 14PR?

- | | |
|--------------------|-------------------|
| A) Bead circle dia | B) Ply rating |
| C) Shoulder width | D) Tyre thickness |

344. What is the colour of front indicator lamps?

- | | |
|----------|-----------|
| A) White | B) Orange |
| C) Red | D) Green |

345. What is the advantage of coil spring?

- | | |
|--------------------------------|--------------------------------|
| A) Provide greater pay load | B) Good load carrying capacity |
| C) High steering and stability | D) Low space requirement |

346. Which type of shock absorber is easy for replacement and handling?

- | | |
|----------------|--------------------|
| A) Vane type | B) Telescopic type |
| C) Piston type | D) Mechanical type |

347. Which electronic control system prevent stalling of engine when additional loads are placed on the engine?

- | | |
|------------------------------|----------------------------------|
| A) Idle speed control system | B) Fuel injection control system |
| C) Fuel pump control system | D) Ignition control system |

348. What is the permitted range of pedal play observed in the heavy vehicle?

- | | |
|--------------|--------------|
| A) 6 -10 mm | B) 2 -4 mm |
| C) 16 -20 mm | D) 15 -18 mm |

349. Where the non-return valve is located in the centre feed master cylinder?

- | | |
|-------------------------|------------------------|
| A) On the cylinder head | B) On the pistons head |
| C) On the reservoir | D) On the bypass port |

350. How the alternator field terminal is connected to the battery?

- | | |
|------------------------|-------------------------|
| A) By charge indicator | B) By ignition switch |
| C) By indicator lamp | D) By voltage regulator |

351. When the driver is warned of difference in tyre pressure?

- | | |
|---|---|
| A) Difference in pressure exceeds 30% | B) Difference in pressure more than 10% |
| C) Difference in pressure more than 20% | D) Difference in pressure exceeds 40% |

352. Which type of suspension spring made of fibre glass, laminated and bonded together by tough polyster resins?

- | | |
|----------------------------|--------------------------|
| A) Monoleaf springs | B) Coil springs |
| C) Fiber composite springs | D) Multiple leaf springs |

353. Which material is used for brake rotors and brake pads for aircraft and racing cars?

- | | |
|-------------------|---|
| A) Sintered alloy | B) Carbon fiber reinforced carbon composite |
| C) Asbestos | D) Copper, brass, steel |

354. What is the purpose of air suspension?

- | | |
|---------------------------------|---------------------------------------|
| A) Reduce the suspension weight | B) Increase the directional stability |
| C) Reduce the space occupation | D) Used for leveling purpose |

355. Which type of shock absorber maintain vehicle ride at a pre - set level according to the load placed over the rear axle?

- A) Hydraulic shock absorber B) Mechanical shock absorber
C) Automatic load adjustable shock absorber D) Gas pressurised shock absorber

356. Which type of lights provide maximum brightness in a shorter time?

- A) LCD light B) LED light
C) Halogen light D) Neon light

357. What is the cause of low pressure in the hydraulic power steering system?

- A) Wrong flow control valve setting B) Air in the system
C) Low oil level D) Worn out sealing ring

358. What is the main cause for wear on one side of tyre?

- A) Improper caster B) Improper camber
C) Over inflation D) Under inflation

359. What is the function of traction control system?

- A) Reduce the engine torque B) Prevent wheel spinning
C) Release the pressure to expansion tank D) Reduce steering effort

360. Which type of ECU is the combination of ECM and TCM in the vehicle?

- A) BCM B) EBCM
C) VCM D) PCM

361. What is the aspect ratio in the tyre structure?

- A) Percentage ratio of tyre height to Rim width B) Percentage ratio of tyre height to tyre width
C) Ratio between tyre width to Rim width D) Ratio between tyre height to tyre dia

362. Which labour act provide information regarding accidents death, or disability?

- A) Workers compensation act 1923 B) Employees state insurance act 1948
C) Minimum wages act 1948 D) Employees P.F act 1952

363. What is the average power steering gear ratio followed in general?

- A) Equal to manual steering B) 20% less than manual steering
C) 40% less than manual steering D) 10% more than manual steering

364. Why tyre wear found abnormal in the vehicle?

- A) Improper linkage adjustment B) Improper tyre pressure
C) Loose wheel nut D) Improper toe-in and toe-out

365. Which is noise free clutch?

- A) Diaphragm spring type clutch B) Dog clutch
C) Single plate clutch D) Multi plate clutch

366. Which type of gear will not produce axial thrust while transmitting torque

- A) Spur gear B) Worm gears
C) Helical gears D) Spiral bevel gear

367. What is the possible cause of motor not running and no operating sound of magnetic switch?

- A) Worn brushes B) Worn pinion tip
C) Battery discharged D) Burnt commutator