

ITI Quiz - 28-Mar-2026

12:18 AM

Q. ID: ITISKILL9755UA

March 2026

Question Paper

Duration: 30 Mins

Total Marks: 367

ID: ITISKILL9755UA

Student Name: _____ Roll No: _____

1. What is the effect of discharged battery?

- A) Engine back fire
- B) Air lock in the fuel system
- C) Engine does not crank
- D) Abnormal noise in the engine

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

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

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

9. Which sensor is used to sense vibration?

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

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

- A) To track the stolen car
- B) To protect the driver and passenger
- C) Prevent the steering wheel from turning
- D) Provide ventilation inside vehicle

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

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

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

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

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

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

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

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

12. 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

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

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

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

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

7. 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

14. 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

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

15. What is the advantage of electronic power steering?

- A) Compact in size
- B) Energy being consumed only while steering

- C) Less occupation of space D) Number of components are less

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

24. Which system provided between axles and chassis frame?

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

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

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

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

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

27. 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

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

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

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

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

30. Which is not the benefit of power steering?

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

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

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

32. What is the effect of weak suspension?

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

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

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

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

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

35. What is the colour of front indicator lamps?

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

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

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

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

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

38. What is the cause of noise in steering?

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

39. Which type of ECU control actuators of engine?

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

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

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

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

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

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

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

43. 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 chocked

44. Which system provided between axles and chassis frame?

- A) Cooling system
- B) Braking system

C) Suspension system

D) Steering system

45. 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

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

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

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

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

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

- A) By applying grease on the steering controls
- B) Providing adequate lubrication
- C) Providing proper brake adjustment
- D) By maintaining proper angle between tyres

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

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

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

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

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

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

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

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

53. What is the working principle of alternator?

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

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

- A) Replace the flow control valve
 B) Adjust the torsion bar linkage
 C) Replace the with new fluid
 D) Fill fluid to correct level and bleed the system
- C) 40% less than manual steering
 D) Equal to manual steering

55. 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) Automatic load adjustable shock absorber
 C) Mechanical shock absorber
 D) Gas pressurised shock absorber

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

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

57. What is the purpose of engine immobilizer?

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

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

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

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

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

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

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

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

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

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

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

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

- A) 10% more than manual steering
 B) 20% less than manual steering

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

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

65. What causes no charge when engine is running?

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

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

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

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

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

68. Which is noise free clutch?

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

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

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

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

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

71. How the tyre height is calculated?

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

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

- A) Provide noise in gear shifting
 B) Prevent cushioning effect during gear shifting

C) Easy gear shifting when vehicle in motion

D) Damage the gear teeth during gear change

C) Monitor air temperature inside vehicle

D) Monitor air temperature at the exhaust

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

A) Outside micrometer

B) Inside micrometer

C) Dial indicator

D) Bore dial gauge

82. Why tyre wear found abnormal in the vehicle?

A) Improper linkage adjustment

B) Loose wheel nut

C) Improper tyre pressure

D) Improper tol-in and tol-out

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

A) Driver have to use less effort on steering

B) Vehicle will not move

C) Increase steering stability

D) Vehicle pull to one side wheel

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

A) Torque sensor

B) Temperature sensor

C) Hall effect sensor

D) Rotation sensor

75. Which device acts as an evaporator temperature sensing switch?

A) Defroster switch

B) Blower switch

C) Heater switch

D) Thermostatic switch

84. 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

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

A) Support rectifier mounting plates

B) Drive the crank shaft

C) Rotate the alternator rotor

D) Drive the cam shaft

85. What is reason for low oil pressure?

A) Clogged air filter

B) Clogged oil filter

C) Defective pressure release valve

D) Oil level is high

77. 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

86. What is the disadvantage of independent suspension system?

A) More maintenance cost

B) Vibration damping is less effective

C) Shocks transmitted from one wheel to other

D) Spring weight is more

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

A) Helical gear

B) Spur gear

C) Worm gear

D) Bevel gear

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

A) For lubrication

B) For fitting insulated windings

C) Provide space for cooling

D) For easy fitting

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

A) Front side

B) Side of vehicle

C) Pilot lamp

D) Rear side

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

A) 02:01

B) 02:01

C) 02:03

D) 01:02

80. How the tyre is specified?

A) Shoulder width, Tyre thickness

B) Shoulder dia, Bead circle dia, Ply rating

C) Ply rating, tyre inner circle dia, shoulder width

D) Shoulder width, Boad circle dia. Ply rating

89. What is the effect of defective oil pump?

A) Low oil pressure

B) High oil pressure

C) Detonation occur

D) Engine seized

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

A) Monitor air temperature outside vehicle

B) Monitor air temperature in driver cabin

90. Which advantage does not suit to wheel alignment?

A) Minimise tyre wear

B) Achieve easy torque transmission

C) Reduce driver effort

D) Achieve self centering after turning

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

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

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

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

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

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

94. How the tyre height is calculated?

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

95. What is the function of magnetic clutch in air conditioning system?

- A) Absorbs moisture in the system
- B) Cool the hot refrigerant
- C) Connect and disconnect drive to compressor
- D) Control the refrigerant flow to evaporator

96. 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

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

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

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

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

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

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

100. Why rubber buffer is provided in the main spring of

suspension system?

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

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

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

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

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

103. What is the role of ABS brakes?

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

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

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

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

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

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

- A) To enhance the fuel efficiency
- B) To increase the engine power
- C) To reduce the fuel consumption
- D) To turn and control vehicle with less effort

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

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

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

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

109. Why tyre wear found abnormal in the vehicle?

A) Improper tol-in and tol - out
B) Loose wheel nut

C) Improper tyre pressure
D) Improper linkage adjustment

110. What is the working principle of clutch?

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

111. What is the expansion of LED?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

A) Burnt commutator
B) Worn brushes

C) Battery discharged
D) Worn pinion tip

120. What is the cause of electrodes burning in the spark plug?

A) Plug runs too cold
B) Incorrect fuel mixture
C) Incorrect tappet clearance
D) Plug runs too hot

121. Which principle is applicable for hydraulic brakes?

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

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

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

123. What is the impact of larger scrub radius?

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

124. Which advantage does not suit to wheel alignment?

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

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

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

126. What is the purpose of air suspension?

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

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

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

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

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

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

- A) Neon type head light
- C) LED type head light

- B) Halogon head light
- D) LCD type head light

- C) It increase steering stability

- D) It transfer braking torque to the chassis

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

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

131. Which is not the function of suspension system?

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

132. What is the advantage of using constant mesh gear box?

- A) Quick change of gear obtained
- C) Efficient lubrication possible
- B) Wrong adjustment of gear will not affect the function
- D) Smooth power transmission

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

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

134. What is the motive of vehicle information report?

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

135. Where the starter motor located?

- A) Front side of engine
- C) Rear side of engine
- B) Top side of engine
- D) Bottom of engine

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

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

137. What is the cause of hard gear shifting?

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

138. Which is not the function of suspension system?

- A) It gives cushioning effects

139. What is the function of ignition coil?

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

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

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

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

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

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

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

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

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

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

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

145. How to rectify the hard gear shifting?

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

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

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

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

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

148. What is the function of distributor in the battery ignition system?

- A) Distribute low tension current to ignition coil
B) Distribute high tension current from ignition coil to secondary winding
C) Distribute high tension current flow ignition coil to spark plugs
D) Opens and closes the secondary circuit of coil

149. Which system deals with alternator?

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

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

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

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

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

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

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

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

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

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

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

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

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

156. What will be the result of defective clutch?

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

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

- A) Less pedal effort
B) Less maintenance and repair

- C) Easy to operate
D) Smooth functioning

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

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

159. Which facor affecting suspension?

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

160. 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

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

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

162. 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) Coil spring suspension
C) Torsion bar suspension
D) Conventional suspension

163. 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

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

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

165. Which part connects propeller shaft?

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

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

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

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

- A) Clutch shaft
- C) Universal joint

- B) Half shaft
- D) Fly wheel

- A) Tyre width
- C) Thread radius

- B) Tyre height
- D) Tyre outer diameter

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

- A) Parking light circuit
- C) Head light circuit

- B) Panel light circuit
- D) Stop light circuit

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

- A) Bolted to the rim centre
- C) Bolted to metal valve

- B) Secured in the tyre outer edges
- D) Secured in the wheel hub

170. Which type of gear converts rotary motion in to linear motion and vice versa?

- A) Rack and Pinion
- C) Helical gears

- B) Bevel gear
- D) Spur gear

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

- A) Oxygen gas
- C) Argon gas

- B) Hydrogen gas
- D) Nitrogen gas

172. Why horn produces low improper sound?

- A) Fuse blown off
- C) Open field coil winding

- B) Relay points stuck up
- D) Cracked diaphragm

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

- A) Centre of tyre wearout faster
- C) Outer edge of tyre wearout faster

- B) Inner edge of tyre wear out faster
- D) Cracks developed in the tyre tread

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

- A) Fog light
- C) Dome light

- B) Head light
- D) Stop light

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

- A) High compression
- C) Poor oil circulation

- B) Weak compression
- D) Air lock in fuel system

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

- A) PCM
- C) BCM

- B) EBCM
- D) VCM

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

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

- A) Prevent wastage of current
- C) Increase the fuel efficiency

- B) Reduce the wear on commutator
- D) Prevent damage to starter motor

179. What is the function of steering system?

- A) To increase the engine RPM
- C) To control the braking system

- B) To control the fuel system
- D) To guide the vehicle

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

- A) Vane type
- C) Piston type

- B) Mechanical type
- D) Telescopic type

181. What is the function of rotor assembly?

- A) Supports pre lubricated scaled bearing
- C) Supports rectifier mounting plates

- B) Carriers driving pulley and cooling fan
- D) Allow the current flow in one direction

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

- A) Tyre will crack at edges
- C) Tyre will wear out at edges

- B) Tyre will wearout at centre
- D) Tyre will crack at centre

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

- A) Spring weight is less
- C) Shocks are transmitted from one wheel to other

- B) Maintenance cost is less
- D) This is simple arrangement

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

- A) Easy repair and maintenance
- C) Minimize the force to operate the clutch

- B) Effective frictional force obtained
- D) Reduce the wear on the clutch plate

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

- A) Wrong hose size
- C) Drop in pressure

- B) Improper tyre pressure
- D) King pin wornout

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

- A) Worm gears

- B) Helical gears

C) Spur gear

D) Spiral bevel gear

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

A) 16 -20 mm

B) 2 -4 mm

C) 6 -10 mm

D) 15 -18 mm

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

A) Cone clutch

B) Dog clutch

C) Multi plate clutch

D) Diaphragm spring clutch

189. What is the purpose of brake proportioning valves in the braking system?

A) Increase braking efficiency

B) Provide balanced braking

C) Prevent front wheel lockup

D) Reduces brake pedal effort

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

A) King pin wornout

B) Improper tyre pressure

C) Wrong hose size

D) Drop in pressure

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

A) Oil filter blocked

B) Fuel tank cap vent hole blocked

C) Radiator cap blocked

D) Oil pump gear worn out

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

A) Front axle bend/twist

B) Incorrect toe - in and toe - out

C) Malfunctioning of torsion bar

D) Presence of air in the break fluid

193. 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

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

A) Tone disc damaged

B) Fuse blown off

C) Relay point stuck up

D) Low voltage at horn terminal

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

A) Worm gear

B) Herring bone gears

C) Bevel gear

D) Spur gear

196. What is the purpose of 'G' sensor

A) Locking pressure inside wheel cylinder

B) Detect wheel lock up condition

C) Reduce pressure at wheel cylinder

D) Measuring deceleration rate of vehicle

197. 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

198. What is the purpose of tachometer?

A) Indicate engine RPM

B) Indicate oil pressure

C) Indictae fuel level

D) Indicate coolant temperature

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

A) Effective fuel distribution achieved

B) Increased thermal efficiency

C) Increased mechanical efficiency

D) Better starting and acceleration

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

A) Spur gear

B) Bevel gear

C) Worm gear

D) Helical gear

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

A) Castor angle

B) King pin inclination

C) Included angle

D) Camber angle

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

A) Tyre width

B) Thread width

C) Rim width

D) Thread radius

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

A) Rotary control valve

B) Pressure relief valve

C) Unloading valves

D) Flow control valve

204. What is the cause of noise in steering?

A) Defective flow control valve

B) Defective torsion bar

C) High fluid level

D) Presence of air in the fluid

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

A) Compression springs

B) Coil springs

C) Leaf springs

D) Helical springs

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

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

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

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

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

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

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

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

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

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

211. 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) Leaf spring
- D) Suspension spring

212. What is the possible reason for gear slip?

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

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

- A) Evaporator
- B) Blower
- C) Condenser
- D) Receiver

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

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

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

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

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

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

217. Which factor affecting suspension?

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

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

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

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

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

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

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

221. What is the effect of defective injector?

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

222. What is the function of solenoid switch?

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

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

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

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

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

225. What is the function of clutch?

- A) Prevent malfunctioning of fly wheel
- B) Reduce the noise during engine running
- C) Connect and disconnect power flow engine to gear box
- D) Increase and decrease the RPM of engine

226. Which light provide effective illumination during snowfall?

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

227. 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) Fibre composite springs
- D) Monoleaf springs

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

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

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

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

230. Which is not the benefit of power steering?

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

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

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

232. What causes noisy gear box in neutral position?

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

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

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

234. Which device inflate the air bag in few milli seconds

during vehicle collision?

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

235. What is the material used to make diodes?

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

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

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

237. 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 distribute the load evenly
- C) To observe braking and driving torque
- D) To provide cushioning effect

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

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

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

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

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

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

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

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

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

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

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

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

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

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

245. What is the cause for high oil consumption?

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

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

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

247. What is the function of diodes?

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

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

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

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

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

250. Why the brushes are provided with a curvature at the bottom in the starting system?

- A) Provide more contact with commutator
- B) Prevent wear on commutator
- C) Provide ventilation to commutator
- D) Ensure proper heat dissipation

251. 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

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

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

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

- A) Difference in pressure more than 10%
- B) Difference in pressure exceeds 40%

C) Difference in pressure more than 20%

D) Difference in pressure exceeds 30%

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

- A) Vibration damper
- B) Gear box
- C) Cam shaft
- D) Crank shaft

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

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

256. How the tyre is specified?

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

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

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

258. What is the disadvantage of independent suspension system?

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

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

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

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

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

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

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

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

- A) Provide accurate rounds of rim
- B) Provide directional stability of vehicle

- C) Support the chassis frame of vehicle
D) Distribute pre load evenly

263. Which type of winding is connected to the starter switch in the solenoid switch?

- A) Hold in winding
B) Primary winding
C) Pull in winding
D) Compound winding

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

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

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

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

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

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

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

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

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

- A) Defective oil pressure
B) Thermo time switch faulty
C) Damaged radiator
D) Faulty fuel filter

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

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

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

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

271. What is the advantage of electronic power steering?

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

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

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

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

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

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

- A) Auto synchromesh gear box
B) Constant mesh gear box
C) Sliding mesh gear box
D) Synchromesh gear box

275. Which type of horn consist electrically driven air pump forces air through plastic trumpet?

- A) Wind horn
B) Wind horn
C) Air horn
D) Electric horn

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

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

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

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

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

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

279. Which type of DC starter motor generally used in automoniles?

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

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

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

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

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

282. What is the use of tail light?

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

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

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

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

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

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

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

286. 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) Gas pressurised shock absorber
- C) Automatic load adjustable shock absorber
- D) Hydraulic shock absorber

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

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

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

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

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

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

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

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

291. 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) Malfunctioning of torsion bar
- D) Front axle bend/twist

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

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

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

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

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

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

295. Which is the cause for high oil consumption?

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

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

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

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

- A) Sunload sensor
- B) Temperature sensor
- C) Infrared sensor
- D) Smog sensor

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

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

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

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

300. Which sensor used for safer parking of vehicle?

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

301. 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

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

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

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

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

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

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

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

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

306. What is the effect of weak suspension?

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

307. Why light weight cars use low steering ratio?

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

308. What is the necessity of square cut seals?

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

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

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

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

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

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

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

312. What is the advantage of dog clutch?

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

313. What is the function of traction control system?

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

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

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

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

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

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

- A) Percentage rartio 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

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

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

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

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

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

- A) Coil springs
- B) Leaf springs

- C) Compression springs D) Helical springs

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

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

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

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

322. Why light weight cars use low steering ratio?

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

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

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

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

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

325. 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

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

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

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

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

328. 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

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

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

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

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

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

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

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

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

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

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

334. 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

335. What is the purpose of dome light circuit?

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

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

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

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

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

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

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

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

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

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

- A) 6 kg per min
B) 4 kg per min
C) 10 kg per min
D) 8 kg per min

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

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

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

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

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

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

344. What is the impact of larger scrub radius?

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

345. What is the purpose of alternator?

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

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

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

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

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

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

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

349. What is the function of condenser?

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

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

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

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

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

352. 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

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

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

354. What is the disadvantage of excessive positive camber in the wheel alignment?

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

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

- A) Ball joint
B) Stabiliser bar

- C) Lower control arm D) Torsion bar

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

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

357. What is the advantage of coil spring?

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

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

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

359. What is the function of vehicle control module?

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

360. Which system not connected with electrical system?

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

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

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

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

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

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

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

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

- A) Fuel level in tank is high B) Piston ring worn-out
C) Oil level high D) High compression pressure

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

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

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

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

367. What is the necessity of wiper unit?

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