

ITI Quiz - 08-Feb-2026

06:23 PM

Q. ID: ITISKILL9145LA

February 2026

Answer Key

Duration: 30 Mins

Total Marks: 37

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

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

Answer: B) Fail safe relay

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

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

Answer: B) 01:02

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

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

Answer: B) Between frame and vehicle axle

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

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

Answer: C) Percentage ratio of tyre height to tyre width

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

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

Answer: D) Combine high mechanical efficiency with smooth operation

6. 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

Answer: C) 120 to 125 PSI

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

- A) Glowing the parking lamp
- B) Peep sound in the cabin
- C) Indication lamp the dash board
- D) Flickering the tail lamp

Answer: A) Glowing the parking lamp

8. Why light weight cars use low steering ratio?

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

Answer: C) To obtain large steering effect

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

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

Answer: D) Thread radius

10. What is the cause of noise in steering?

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

Answer: D) Presence of air in the fluid

11. How the tyre height is calculated?

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

Answer: B) Tyre outer dia - Rim dia

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

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

Answer: B) Multiple - leaf spring

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

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

Answer: C) Split wheel

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

- A) Unloading valves
- B) Pressure relief valve

- C) Flow control valve D) Rotary control valve

Answer: D) Rotary control valve

15. 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) Torque sensor D) Hall effect sensor

Answer: C) Torque sensor

16. 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) Centreof tyre wearout faster

Answer: B) Inner edge of tyre wear out faster

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

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

Answer: C) Improper camber

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

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

Answer: D) 20% less than manual steering

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

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

Answer: A) Wheel is caused to toe - in

20. 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) Wornout sealing ring

Answer: A) Wrong flow control valve setting

21. 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

Answer: D) Shoulder width, Boad circle dia. Ply rating

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

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

Answer: B) Difference in pressure exceeds 30%

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

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

Answer: C) Noise

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

- A) Prevent front wheel lockup B) Reduces brake pedal effort
C) Increase braking efficiency D) Provide balanced braking

Answer: D) Provide balanced braking

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

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

Answer: C) Strut type suspension

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

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

Answer: C) Telescopic type

27. Which facor affecting suspension?

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

Answer: D) Wornout spring

28. Why tyre wear found abnormal in the vehicle?

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

Answer: A) Improper tol-in and tol - out

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

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

Answer: A) Ply rating

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

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

Answer: A) Automatic adjustment of engine torque to the grip rates

31. Which principle is applicable for hydraulic brakes?

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

Answer: B) Pascal's law

32. Which advantage does not suit to wheel alignment?

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

Answer: D) Achieve easy torque transmission

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

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

Answer: C) Tyre width

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

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

Answer: A) Helical springs

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

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

Answer: C) Incorrect toe - in and toe - out

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

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

Answer: C) 11 : 1 to 24 : 1

37. Which is not the function of suspension system?

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

Answer: C) It increase steering stability