

ITI Quiz - 20-Feb-2026

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Q. ID: ITISKILL1030XH

February 2026

Answer Key

Duration: 30 Mins

Total Marks: 50

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1. 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

Answer: D) Tyre will wearout at centre

2. 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 increase brake pressure to the rear wheel
- C) It controls the slip of the rear wheel
- D) It improve directional stability of vehicle

Answer: C) It controls the slip of the rear wheel

3. 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

Answer: C) 9 - 10 Degree

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

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

Answer: B) Mechanical type

5. 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

Answer: C) Automatic load adjustable shock absorber

6. 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

Answer: C) To obtain large steering effect

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

- A) ECU
- B) TCS

C) ELSD

D) EBD

Answer: A) ECU

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

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

Answer: A) Traction rating

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

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

Answer: C) Spring weight is less

10. 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

Answer: C) To observe braking and driving torque

11. Which principle is applicable for hydraulic brakes?

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

Answer: C) Pascal's law

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

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

Answer: A) Split wheel

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

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

Answer: B) Fine polished steel wool

14. What is the advantage of electronic power steering?

- A) Energy being consumed only while steering
- B) Number of components are less

- C) Compact in size D) Less occupation of space

Answer: A) Energy being consumed only while steering

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

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

Answer: B) Tyre outer edge will wearout fast

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

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

Answer: C) Wheel is caused to toe - in

17. Which system provided between axles and chassis frame?

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

Answer: B) Suspension system

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

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

Answer: A) Coil spring

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

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

Answer: B) Thread radius

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

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

Answer: B) Combine high mechanical efficiency with smooth operation

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

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

Answer: B) Fail safe relay

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

- A) Resist vibration B) Provide grippiness on the surface

- C) Provide strength to tyre D) Prevent tyre slip

Answer: C) Provide strength to tyre

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

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

Answer: B) Ball joint

24. What is the purpose of 'G' sensor

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

Answer: A) Measuring deceleration rate of vehicle

25. What is the purpose of air suspension?

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

Answer: A) Used for leveling purpose

26. 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

Answer: D) 01:02

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

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

Answer: A) Improper camber

28. 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

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

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

Answer: C) Holds the tyre in correct position

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

- A) Drop in pressure B) Wrong hose size

- C) King pin wornout D) Improper tyre pressure

Answer: C) King pin wornout

31. 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

Answer: A) Prevent wheel spinning

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

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

Answer: A) On the pistons head

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

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

Answer: C) Glowing the parking lamp

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

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

Answer: D) Improper pre load defective steering

35. Why tyre wear found abnormal in the vehicle?

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

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

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

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

Answer: D) Protect chassis frame from heavy jerk

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

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

Answer: D) Brake valve

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

- A) Percentage rartio of tyre height to Rim width B) Ratio between tyre width to Rim width

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

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

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

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

Answer: D) Fitting and removing time consuming

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

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

Answer: D) Improper wheel alignment

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

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

Answer: B) Special type castiron

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

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

Answer: B) Noise

43. Which advantage does not suit to wheel alignment?

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

Answer: A) Achieve easy torque transmission

44. 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

Answer: C) Good braking efficiency in both rear wheels

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

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

Answer: D) Rotary control valve

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

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

Answer: A) 6 mm to 12 mm

47. 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) Conventional suspension
- C) Coil spring suspension D) Strut type suspension

Answer: D) Strut type suspension

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

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

Answer: D) Torque sensor

49. What is the disadvantage of independent suspension system?

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

Answer: B) More maintainance cost

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

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

Answer: D) Tyre width
