

# ITI Quiz - 06-Feb-2026

## 07:03 PM

Q. ID: ITISKILL2039D7

February 2026

Answer Key

Duration: 30 Mins

Total Marks: 25

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

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

**Answer: C) Automatic load adjustable shock absorber**

2. Which is not the benefit of power steering?

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

**Answer: A) Positive breaking system**

3. What is the disadvantage of independent suspension system?

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

**Answer: B) More maintainance cost**

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

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

**Answer: D) Telescopic type**

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

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

**Answer: B) Spring weight is less**

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

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

**Answer: D) Helical springs**

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

- A) Prevention of ratting
- B) Better riding comfort

C) Increased spring life

D) Good braking efficiency in both rear wheels

**Answer: D) Good braking efficiency in both rear wheels**

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

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

**Answer: A) King pin inclination**

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

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

**Answer: D) Mechanical type**

10. What is the effect of weak suspension?

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

**Answer: D) Directional unstability of vehicle**

11. 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

**Answer: B) Used for leveling purpose**

12. Why light weight cars use low steering ratio?

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

**Answer: A) To obtain large steering effect**

13. 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) Monoleaf springs
- D) Multiple leaf springs

**Answer: B) Fiber composite springs**

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

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

**Answer: C) Multiple - leaf spring**

**15.** Which part of coil spring allows angular movement of linkages?

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

**Answer: C) Ball joint**

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

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

**Answer: C) Coil spring**

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

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

**Answer: A) Shock absorber**

**18.** What is the purpose of castor in wheel alignment?

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

**Answer: C) Maintain directional stability and control**

**19.** Which is the heart of integral power steering system?

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

**Answer: A) Rotary control valve**

**20.** Where the airbags are located in the air suspension system?

- A) Between air pressure regulator and front axle    B) Between high control valve and frame

- C) Between brake tank and vehicle axle    D) Between frame and vehicle axle

**Answer: D) Between frame and vehicle axle**

**21.** 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

**Answer: D) Low space requirement**

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

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

**Answer: A) Combine high mechanical efficiency with smooth operation**

**23.** 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) Strut type suspension  
C) Torsion bar suspension    D) Coil spring suspension

**Answer: B) Strut type suspension**

**24.** Which system provided between axles and chassis frame?

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

**Answer: D) Suspension system**

**25.** Which is not the function of suspension system?

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

**Answer: D) It increase steering stability**