

# ITI Quiz - 11-Feb-2026

## 11:54 AM

Q. ID: ITISKILL1734IH

February 2026

Question Paper

Duration: 30 Mins

Total Marks: 25

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Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

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

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

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

2. 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) Affect steering stability
- D) Combine high mechanical efficiency with smooth operation

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

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

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

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

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

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

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

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

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

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

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

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

12. 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

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

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

13. 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 controls the slip of the rear wheel
- D) It increase brake pressure to the rear wheel

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

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

14. 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

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

15. Which is not the function of suspension system?

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

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

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

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

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

18. 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

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

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

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

- A) Reduce abnormal vibration  
B) Reduce tyre wear

- C) Convert steering torque input into voltage signal  
D) Maintain directional stability and control

21. 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

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

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

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

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

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

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

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

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