

ITI Quiz - 10-Feb-2026

10:19 AM

Q. ID: ITISKILL4322BY

February 2026

Question Paper

Duration: 30 Mins

Total Marks: 30

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Student Name: _____ Roll No: _____

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

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

2. How the tyre height is calculated?

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

3. Which advantage does not suit to wheel alignment?

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

4. 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

5. Why light weight cars use low steering ratio?

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

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

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

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

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

8. How the tyre is specified?

- A) Ply rating, tyre inner circle dia, shoulder width
- B) Shoulder width, Tyre thickness

- C) Shoulder dia, Bead circle dia, Ply rating
- D) Shoulder width, Bead circle dia, Ply rating

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

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

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

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

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

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

12. 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

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

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

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

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

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

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

16. What is the advantage of electronic power steering?

- A) Compact in size
- B) Less occupation of space

C) Number of components are less
D) Energy being consumed only while steering

C) Automatic load adjustable shock absorber
D) Mechanical shock absorber

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

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

24. What is the advantage of coil spring?

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

18. 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

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

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

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

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

26. Which type of wheel consists of two separate discs clamped together?

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

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

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

27. Which part of electronic power steering reverts back to manual steering in case of failure in power steering?

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

21. Which part of the tyre is referred to as 'Crown'?

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

28. What does the number 14PR denote in the tyre specification 9.5 x 14 - 14PR?

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

22. Which system is provided between axles and chassis frame?

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

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

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

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

- A) Gas pressurised shock absorber
B) Hydraulic shock absorber

30. Which is not the benefit of power steering?

- A) Positive braking system
B) Quick response
C) Absolute control during driving
D) Effortless steering