

ITI Quiz - 06-Feb-2026

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Q. ID: ITISKILL2039D7

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Question Paper

Duration: 30 Mins

Total Marks: 25

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Student Name: _____ Roll No: _____

1. What is the effect of weak suspension?

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

C) Steering system

D) Braking system

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

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

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

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

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

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

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

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

6. Why light weight cars use low steering ratio?

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

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

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

8. Which system provided between axles and chassis frame?

- A) Suspension system
- B) Cooling system

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

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

10. What is the purpose of air suspension?

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

11. 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

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

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

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

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

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

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

15. Which is not the benefit of power steering?

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

16. What is the advantage of using independent suspension

system?

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

17. 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

18. What is the advantage of coil spring?

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

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

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

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

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

21. 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

22. What is the disadvantage of independent suspension system?

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

23. 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

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

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

25. Which is not the function of suspension system?

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