

ITI Quiz - 08-Feb-2026

06:23 PM

Q. ID: ITISKILL9145LA

February 2026

Question Paper

Duration: 30 Mins

Total Marks: 37

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Student Name: _____ Roll No: _____

1. How the tyre is specified?

- A) Shoulder width, Boad circle dia. Ply rating
- B) Shoulder width, Tyre thickness
- C) Shoulder dia, Bead circle dia, Ply rating
- D) Ply rating, tyre inner circle dia, shoulder width

2. What causes abnormal tyre wear, tyre slip and poor steering stability?

- A) Presence of air in the break fluid
- B) Incorrect toe - in and toe - out
- C) Front axle bend/twist
- D) Malfunctioning of torsion bar

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

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

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

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

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

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

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

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

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

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

8. What will be the effect of negative scrub radious?

- A) The tyre centre portion wear out
- B) Wheel is caused to toe - in

C) Wheel is kept in straight position

D) Wheel is caused to toe - out

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

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

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

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

11. Which advantage does not suit to wheel alignment?

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

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

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

13. Which facor affecting suspension?

- A) More shocks, uncomfortable riding
- B) Wornout spring
- C) Damaged chassis frame
- D) Abnormal tyre wear

14. Which principle is applicable for hydraulic brakes?

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

15. What is the range of steering ratio available in general?

- A) 11 : 2 to 22 : 2
- B) 8 : 2 to 22 : 2
- C) 11 : 1 to 24 : 1
- D) 10 : 1 to 18 : 1

16. Which is not the function of suspension system?

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

17. What is the purpose of brake proportioning valves in the braking system?

- A) Increase braking efficiency
C) Reduces brake pedal effort
- B) Provide balanced braking
D) Prevent front wheel lockup

18. What is the cause of noise in steering?

- A) Presence of air in the fluid
C) Defective torsion bar
- B) Defective flow control valve
D) High fluid level

19. What does the no: 14PR denotes in the tyre specification 9? x 14 - 14PR?

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

20. What is the cause of ? low pressure? in the hydraulic power steering system?

- A) Wornout sealing ring
C) Air in the system
- B) Wrong flow control valve setting
D) Low oil level

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

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

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

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

23. What is the average power steering gear ratio followed in general?

- A) 40% less than manual steering
C) 10% more than manual steering
- B) Equal to manual steering
D) 20% less than manual steering

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

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

25. How the tyre height is calculated?

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

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

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

27. Why light weight cars use low steering ratio?

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

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

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

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

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

30. What will be the effect of negative camber excessive in the wheel alignment?

- A) Centre of tyre wearout faster
C) Inner edge of tyre wear out faster
- B) Cracks developed in the tyre tread
D) Outer edge of tyre wearout faster

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

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

32. What is the steering linkage ratio if the pitman arm length twice of steering arm length?

- A) 02:03
C) 02:01
- B) 01:02
D) 02:01

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

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

34. 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) Torsion bar suspension
 - C) Strut type suspension D) Coil spring suspension
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35. Which type of shock absorber is easy for replacement and handling?

- A) Piston type B) Telescopic type
 - C) Vane type D) Mechanical type
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36. What is the name of distance between most protruding portions on both sides of tyre?

- A) Tyre height B) Tyre width
 - C) Tyre outer diameter D) Thread radius
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37. Why tyre wear found abnormal in the vehicle?

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