

ITI Quiz - 11-Feb-2026

11:54 AM

Q. ID: ITISKILL1734IH

February 2026

Answer Key

Duration: 30 Mins

Total Marks: 25

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

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

Answer: D) Holds the tyre in correct position

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

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

Answer: C) Between frame and vehicle axle

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

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

Answer: B) Tyre width

4. Why light weight cars use low steering ratio?

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

Answer: C) To obtain large steering effect

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

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

Answer: B) Improper camber

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

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

Answer: B) Maintain directional stability and control

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

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

Answer: C) Tyre outer edge will wear out fast

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

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

Answer: B) 7 to 12 mm

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

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

Answer: B) Difference in pressure exceeds 30%

10. Which is not the function of suspension system?

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

Answer: A) It increase steering stability

11. What is the function of EBD (Electronic Brake - Force Distribution) in anti lock brake system?

- A) It controls the slip of the rear wheel
- B) It improve directional stability of vehicle
- C) It increase brake pressure to the rear wheel
- D) It control the slip of the front wheel

Answer: A) It controls the slip of the rear wheel

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

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

Answer: A) Glowing the parking lamp

13. What will be the effect of negative scrub radius?

- A) Wheel is caused to toe - in
- B) Wheel is caused to toe - out
- C) Wheel is kept in straight position
- D) The tyre centre portion wear out

Answer: A) Wheel is caused to toe - in

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

- A) Hydraulic type
- B) Pneumatic type

C) Mechanical type D) Electrical type

Answer: C) Mechanical type

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

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

Answer: B) Good braking efficiency in both rear wheels

16. What is the recommended value of combined angle in the steering system?

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

Answer: A) 9 - 10 Degree

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

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

Answer: D) Ball joint

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

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

Answer: D) 120 to 125 PSI

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

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

Answer: C) Automatic adjustment of engine torque to the grip rates

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

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

Answer: B) Fine polished steel wool

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

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

Answer: D) King pin inclination

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

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

Answer: C) Under inflated tyre

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

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

Answer: D) King pin wornout

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

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

Answer: D) 11 : 1 to 24 : 1

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

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

Answer: D) Combine high mechanical efficiency with smooth operation