

**Duration: 60 Mins****Total Marks: 20****Q.ID: ITISKILL8595G5****1. What is the advantage of using nitrogen in the tyres?**

- A) Provide cushioning effect on the vehicle  
 B) Provide positive road grip  
 C) Observe shocks and vibration  
 D) Increase the tyre life

**Answer: D) Increase the tyre life****2. 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) Fibre composite springs  
 D) Coil spring

**Answer: B) Multiple - leaf spring****3. Which angle helps in self centering of wheels after negotiating a turn?**

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

**Answer: A) King pin inclination****4. What is the effect of weak suspension?**

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

**Answer: B) Directional instability of vehicle****5. What is the name of distance between most protruding portions on both sides of tyre?**

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

**Answer: A) Tyre width****6. What is the recommended value of combined angle in the steering system?**

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

**Answer: A) 9 - 10 Degree****7. Which type of shock absorber absorbs shocks with the help of friction disc and spring?**

- A) Mechanical type  
 B) Hydraulic type  
 C) Pneumatic type  
 D) Electrical type

**Answer: A) Mechanical type****8. What is the advantage of coil spring?**

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

**Answer: C) Low space requirement****9. What is the purpose of air suspension?**

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

**Answer: B) Used for leveling purpose****10. What is the advantage of using independent suspension system?**

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

**Answer: D) Spring weight is less****11. Which type of spring suspension responds quickly to road shocks? |**

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

**Answer: C) Coil spring****12. Which device in the air suspension system observe vibration of low amplitude and high frequency?**

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

**Answer: A) Shock absorber****13. What is the range of steering ratio available in general?**

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

**Answer: B) 11 : 1 to 24 : 1****14. Which type of shock absorber is easy for replacement and handling?**

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

**Answer: A) Telescopic type****15. 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

**Answer: A) Good braking efficiency in both rear wheels**

**16.** 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

**Answer: C) Achieve easy torque transmission**

**17.** 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

**Answer: A) Shoulder width, Boad circle dia. Ply rating**

**18.** Which part of coil spring allows angular movement of linkages?

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

**Answer: B) Ball joint**

**19.** 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) Percentage rartio of tyre height to Rim width  
D) Ratio between tyre width to Rim width

**Answer: A) Percentage ratio of tyre height to tyre width**

**20.** Which part of tyre referred as 'Crown'?

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

**Answer: C) Thread radious**