

Student Name: _____ Roll No: _____

1. What is the purpose of air suspension?

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

2. Which advantage does not suit to wheel alignment?

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

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

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

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

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

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

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

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

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

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

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

8. How the tyre is specified?

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

9. What is the effect of weak suspension?

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

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

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

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

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

12. What is the recommended valve of combined angle in the steering system?

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

13. What is the advantage of using nitrogen in the tyres?

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

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

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

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

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

16. What is the advantage of coil spring?

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

17. 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

18. 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

19. Which device in the air suspension system observe

vibration of low amplitude and high frequency?

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

20. What is the advantage of using independent suspension system?

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