

Duration: 50 Mins

Total Marks: 25

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1. What is the advantage of coil spring?

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

**Answer: B) Low space requirement**

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

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

**Answer: B) Ball joint**

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

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

**Answer: B) 01:02**

4. What is the disadvantage of rigid axle suspension system?

- A) Maintenance cost is more  
 B) Spring weight is less  
 C) This is a complicated arrangement  
 D) Vibration damping is less effective

**Answer: D) Vibration damping is less effective**

5. Which factor affecting suspension?

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

**Answer: A) Wornout spring**

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

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

**Answer: C) Thread radius**

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

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

**Answer: B) Maintain directional stability and control**

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

- A) Unloading valves  
 B) Flow control valve

- C) Pressure relief valve  
 D) Rotary control valve

**Answer: D) Rotary control valve**

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

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

**Answer: C) Inner edge of tyre wear out faster**

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

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

**Answer: A) Increase the tyre life**

11. What is the effect of weak suspension?

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

**Answer: C) Directional instability of vehicle**

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

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

**Answer: A) Under inflated tyre**

13. Which is not the benefit of power steering?

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

**Answer: B) Positive braking system**

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

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

**Answer: C) Between frame and vehicle axle**

15. Why vibration damper are not used inside the helical

spring?

- A) Possibility of stuck in one position
- B) Fitting and removing time consuming
- C) Not economical
- D) No effect on load carrying capacity

**Answer: B) Fitting and removing time consuming**

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

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

**Answer: D) Tyre outer edge will wearout fast**

**17.** What is the binding material used in organic brake lining?

- A) Fibre glass
- B) Mica
- C) Resin
- D) Asbestos

**Answer: C) Resin**

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

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

**Answer: C) Ply rating**

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

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

**Answer: C) Shock absorber**

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

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

**Answer: C) Multiple - leaf spring**

**21.** What is the advantage of electronic power steering?

- A) Number of components are less
- B) Compact in size
- C) Energy being consumed only while steering
- D) Less occupation of space

**Answer: C) Energy being consumed only while steering**

**22.** Which is not the function of suspension system?

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

**Answer: C) It increase steering stability**

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

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

**Answer: B) 11 : 1 to 24 : 1**

**24.** What is the material used to make brake drum?

- A) High carbon steel
- B) Stainless steel
- C) High speed steel
- D) Special type castiron

**Answer: D) Special type castiron**

**25.** What is the purpose of 'G' sensor

- A) Measuring deceleration rate of vehicle
- B) Detect wheel lock up condition
- C) Locking pressure inside wheel cylinder
- D) Reduce pressure at wheel cylinder

**Answer: A) Measuring deceleration rate of vehicle**