

Student Name: _____ Roll No: _____

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

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

2. What is the disadvantage of excessive positive camber in the wheel aslignment?

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

3. What is the advantage of coil spring?

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

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

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

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

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

6. Which facor affecting suspension?

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

7. What is the material used to make brake drum?

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

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

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

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

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

10. Why vibration damper are not used inside the helical spring?

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

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

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

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

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

13. Which is not the benefit of power steering?

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

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

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

15. What is the effect of weak suspension?

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

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

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

17. What is the purpose of 'G' sensor

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

18. What is the advantage of electronic power steering?

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

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

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

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

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

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

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

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

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

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

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

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

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

25. Which is not the function of suspension system?

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