

Student Name: _____ Roll No: _____

1. Which type of wheel consist two separate discs are clamped together?

- A) Disc wheel B) Split wheel
C) Wire wheel D) Heavy vehicle

2. What is the impact of larger scrub radius?

- A) Bending of steering linkage point B) Wear on the centre part of tyre
C) Unequal braking on the front wheel D) Wear on the outer edge of tyre

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

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

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

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

5. Why tyre wear found abnormal in the vehicle?

- A) Improper tyre pressure B) Loose wheel nut
C) Improper linkage adjustment D) Improper tol-in and tol - out

6. Which principle is applicable for hydraulic brakes?

- A) Hooke's law B) Newton's law of motion
C) Pascal's law D) Boyle's law

7. What causes 'Air suction' in pump of hydraulic power steering system?

- A) High fluid level B) Steering wheel play
C) Noise D) Low pressure

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

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

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

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

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

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

11. What is the purpose of 'G' sensor

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

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

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

13. What is the function of traction control system?

- A) Reduce the engine torque B) Prevent wheel spinning
C) Release the pressure to expansion tank D) Reduce steering effort

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

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

15. Which is not the function of suspension system?

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

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

- A) Tyre outer edge will wearout fast B) Tyre thread wear out

C) Tyre centre will wearout D) Tyre bleeding wire wear out

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

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

18. Where the tyre pressure sensor secured in the wheel assembly?

A) Secured in the wheel hub B) Secured in the tyre outer edges
C) Bolted to metal valve D) Bolted to the rim centre

19. What causes abnormal tyre wear, tyre slip and poor steering stability?

A) Presence of air in the break fluid B) Front axle bend/twist
C) Incorrect toe - in and toe - out D) Malfunctioning of torsion bar

20. Which device permits air to the air brake system?

A) Spring brake actuator B) Hand control valve
C) Brake valve D) System protection valve

21. What is the advantage of coil spring?

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

22. Which part of integral power steering reduce fluid pressure?

A) Flow control valve B) Unloading valve
C) Torsion bar D) Rotary valve

23. What is the cause of ? low pressure? in the hydraulic power steering system?

A) Air in the system B) Wornout sealing ring
C) Low oil level D) Wrong flow control valve setting

24. Which factor affecting suspension?

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

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

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

26. How the tyre is specified?

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

27. What is the cause of ?Poor self centering? in a vehicle?

A) Loose wheel level B) Filter chocked
C) Low oil level D) Improper wheel alignment

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

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

29. What is the purpose of brake proportioning valves in the braking system?

A) Increase braking efficiency B) Prevent front wheel lockup
C) Provide balanced braking D) Reduces brake pedal effort

30. What is the cause of noise in steering?

A) Presence of air in the fluid B) High fluid level
C) Defective torsion bar D) Defective flow control valve

31. What is the precautionary measures to be adapted while removing secondary piston to prevent damage

A) Remove the return spring before B) Remove the circlip before
C) Remove the stopper bolt before D) Remove the retaining spring before

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

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

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

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

34. Which type of suspension spring can not transfer wheel guidance forces?

A) Coil springs B) Leaf springs
C) Helical springs D) Compression springs

35. Which is not the benefit of power steering?

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

36. What will be effect of unequal castor in the vehicle?

- A) Increase steering stability
C) Vehicle will not move
- B) Vehicle pull to one side wheel
D) Driver have to use less effort on steering

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

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

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

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

39. Where the non-return valve is located in the centre feed master cylinder?

- A) On the pistons head
C) On the bypass port
- B) On the reservoir
D) On the cylinder head

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

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

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

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

42. 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

43. Which device detect the driven wheel spin through sensor?

- A) ELSD
C) EBD
- B) TCS
D) ECU

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

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

45. 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

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

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

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

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

48. Which rating indicate the braking capabilities of the tire to the consumer?

- A) Traction rating
C) Tyre rating
- B) Temperature rating
D) Ply rating

49. Why rubber buffer is provided in the main spring of suspension system?

- A) Provide steering control stability
C) Protect chassis frame from heavy jerk
- B) Transfer the load equaly
D) Transfer pay load smoothly

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

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