

Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

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

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

2. Which system provided between axles and chassis frame?

- A) Steering system                      B) Suspension system  
C) Cooling system                      D) Braking system

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

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

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

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

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

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

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

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

7. What is the brake pedal free play range permitted while adjusting?

- A) 13 mm to 18 mm                      B) 4 mm to 8 mm  
C) 6 mm to 12 mm                      D) 8 mm to 10 mm

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

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

9. What is the cause of noise in steering?

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

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

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

11. Which principle is applicable for hydraulic brakes?

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

12. Which material is used for brake rotors and brake pads for aircraft and racing cars?

- A) Copper, brass, steel                      B) Asbestos  
C) Carbon fiber reinforced carbon composite      D) Sintered alloy

13. How to rectify the defect of noise in hydraulic steering?

- A) Fill fluid to correct level and bleed the system      B) Replace the flow control valve  
C) Adjust the torsion bar linkage              D) Replace the with new fluid

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

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

15. What is the material constituent of semi metallic brake lining?

- A) Aluminium oxide                      B) Carbon fiber  
C) Carbon composite                      D) Fine polished steel wool

16. Which steering system will provide assistance even when the engine is not running?

- A) Linkage power steering                      B) Integral power steering  
C) Electronic power steering              D) Manual steering

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

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

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**18.** What is the function of EBD (Electronic Brake - Force Distribution) in anti lock brake system?

- A) It control the slip of the front wheel
- B) It controls the slip of the rear wheel
- C) It increase brake pressure to the rear wheel
- D) It improve directional stability of vehicle

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

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

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**20.** Which device detect the driven wheel spin through sensor?

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