

UNIT-3

Part A questions)

1. State the functions of clutch.
2. What is the function of pressure plate in a clutch?
3. What are the different types of clutches?
4. Write the main function of gearbox.
5. What are the functions of universal joint?
6. State the function of differential unit.
7. What is meant by differential lock?
8. What is a fluid coupling?
9. State the functions of slip joint.
10. What is the function of a propeller shaft?
11. What are the requirements of an automotive transmission?
12. What are the requirements of a clutch?
13. What are the types of gear box?
14. What is the use of torque convertor?
15. State the forces act on the rear axle.

Part B

16. (i) Explain the working principle of torque tube drive with neat sketch. (8)
- (ii) Explain the working principle of hotch kiss drive with neat sketch. (8)
17. Explain the construction and working principle of a typical gear box. (16)
18. (i) What is a clutch? Explain the operation of centrifugal clutch. (8)
- (ii) Explain the working principle of synchromesh gear box with neat sketch. (8)
19. (i) Explain the types of rear axles with neat sketch. (12) (ii) What is the necessity of a gear box? (4)
20. Explain the working principle of fluid flywheel with neat sketch and also mention the limitations. (16)
21. Explain the single plate clutch and multiplate clutch with neat sketch. (16)
22. (i) Explain the working of sliding mesh gear box with neat sketch. (10)
- (ii) Explain the working of a cone clutch. (6)
23. (i) Explain the working of a constant mesh gear box. (8)
- (ii) Explain the working of universal joint with neat sketch. (8)
24. (i) Explain the working of epicyclic gear box with neat sketch. (8)
- (ii) Compare fluid coupling and torque convertor. (8)
25. Explain the construction and working of a differential unit with neat sketch. (16)
26. Explain the principle of working of torque convertor with neat sketch. (16)