

T.E.(Mechanical Engineering)
DESIGN OF TRANSMISSION SYSTEMS
(2019Pattern) (Semester-VI)

1. Write short note on Reynolds's equation (2D) and Petroff's equations.
2. State and explain properties of material used in sliding contact bearing.
3. Explain nodal method of optimization with example.
4. Differentiate between Hydrodynamic and Hydrostatic lubrication. .
5. State different types of brakes and its application. .
6. Explain in brief block brake with short shoe.
7. Write short note on
1) Self energizing block brake 2) Self locking block brake.
8. Draw and Explain block brake with long shoe.
9. Explain the effort applied at the end of lever for differential brake.
10. Explain different laws of stepped speed regulation.
11. Explain Hybrid electric vehicle with the help of block diagram.
12. Write short note on hybrid vehicle. Also write its advantages and disadvantages.