

### ASSIGNMENT 3

1. Explain any five terminology of gear tooth with neat sketch.
2. Explain what is meant by the term “Interference” as related to toothed gears having profile? Discuss various methods used to avoid interference.
3. Explain epicyclic gear train with the help of neat sketch. Write its merits and demerits as compared to reverted and compound gear trains.
4. Explain any five terminology of gear tooth with neat sketch.
5. Enlist different types of gear train. Explain compound gear train with neat sketch. Also derive the equation of the velocity ratio for compound gear train.
6. What is gear train? Give classification of it and Explain epicyclic gear train in detail.
7. Differentiate between involute and cycloidal profile of gear teeth.
8. Determine the velocity ratio of differential gear box
9. Comparison between Involute and Cycloidal tooth profile.
10. Fundamental Law of Gearing.

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