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August/September 2022
B.Tech. (ME) IV SEMESTER
Kinematics of Machines (PCC-ME-40
SL: SYREN 'xeN]

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(g) What is Gear train?
(h) Name the different motion that a follower can have.
(i) What is period of dwell?
(j) What is number synthesis?

## PART-B

2. What is Kinematic pair? Classify the Kinematic pairs.
3. (a) Explain the different types of constrained motions.
(b) Explain the inversions of four bar chain.
4. The crank of slider crank mechanism is 150 mm and connecting rod is 750 mm . The crank rotates at a constant speed of 300 r.p.m. clockwise. Calculate the velocity and acceleration of the slider when crank has turned 30 degrees from inner dead center position.
5. (a) What are advantages of epicyclic gearing?
(b) Explain what is interference and how it is prevented?
(c ) With the help of neat sketch, explain the working of reverted gear train.
(5)

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