Benha University
Mechanical Engineering Department (Power)


## Student Name:

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1. Question (1)

Marks (10)
For the shown mechanism crank 2 rotates with constant angular velocity $\omega_{21}=25 \mathrm{~s}^{-1}$
Given $\mathrm{M}_{\mathrm{L}}=10 \mathrm{~cm} / \mathrm{cm}$
a) Construct the velocity and acceleration diagrams.
b) Determine the velocity and acceleration of both slider link 5 and 6.
c) Determine $\omega_{31}, \omega_{41}, \alpha_{31}, \alpha_{41}$

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