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Question:

Discuss the following motion of the follower by drawing the displacement velocity and acceleration diagram.

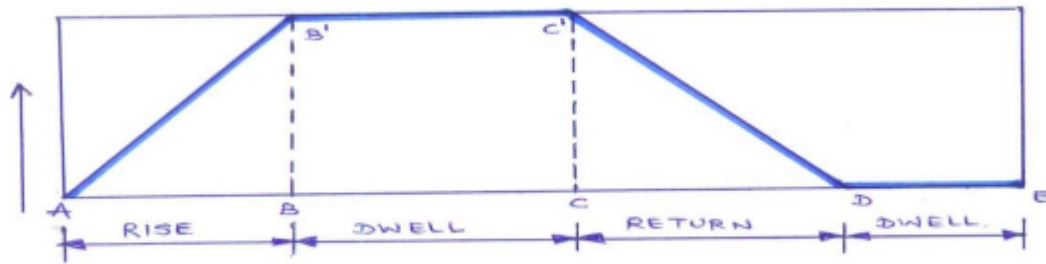
(i) Uniform Velocity

(ii) Simple Harmonic Motion

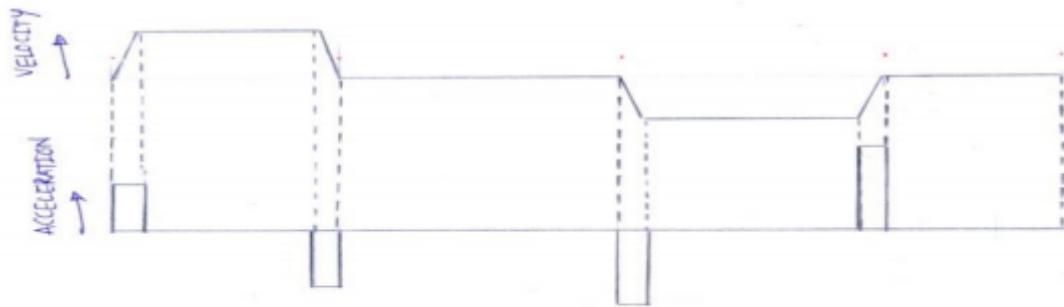
(iii) Uniform acceleration and retardation

Answer:

i) uniform velocity.
displacement diagram:

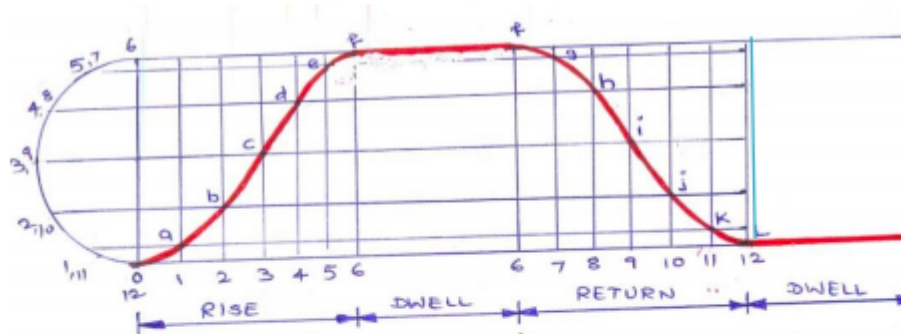


Velocity and acceleration diagram:

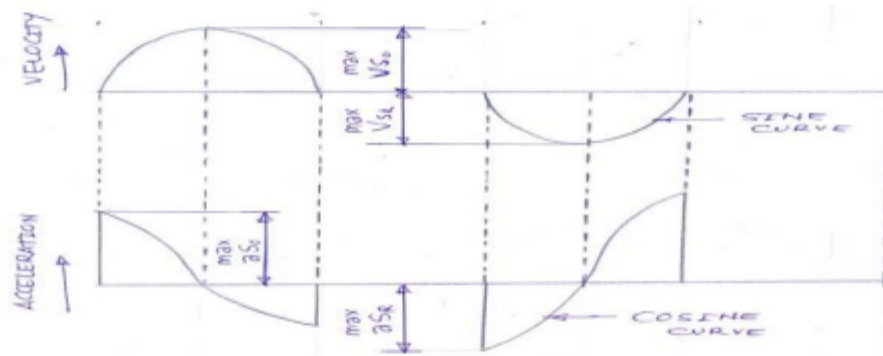


ii) simple harmonic motion.

Displacement diagram:

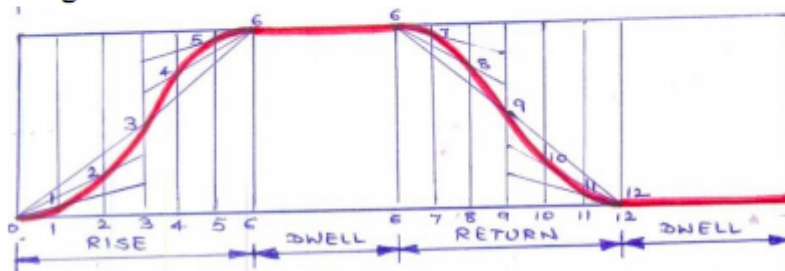


Velocity and acceleration diagram:



iii) uniform acceleration and retardation.

Displacement diagram:



Velocity and acceleration diagram:

