This mobile revision pdf is based on detailed work found in the 'MECHANISMS' section.

Tap on the green and yellow link buttons below to go to the

website



Tap the blue button to view all work covered by this Revision PDF



QUESTIONS AND ANSWERS MECHANISMS

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HOW TO USE THIS REVISION PDF Read and attempt answering each question, before following the link to a potential answer. Also, consider working in pairs.

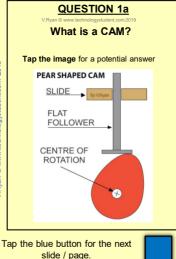
QUESTIONS ONE TO FIVE

QUESTIONS SIX TO TEN

QUESTIONS ELEVEN TO FIFTEEN

TAP / CLICK THE LINK BUTTON FOR ALL MOBILE APPS





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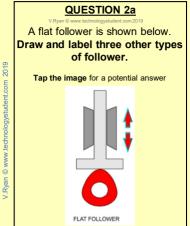
DIA 1

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DIA, 2

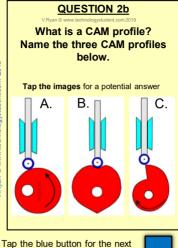




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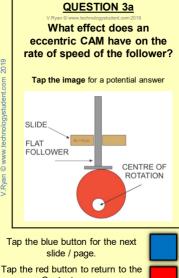


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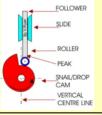


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Contents page

Name this CAM profile. How does it influence the movement of the follower? What could happen if the CAM profile rotates in a clockwise direction?

Tap the image for a potential answer



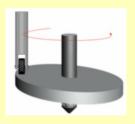
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Name and describe this type of CAM.

Tap the image for a potential answer



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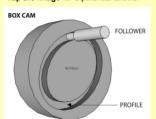
QUESTION 4b

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This is a Box CAM. Describe one practical application of this type of CAM.

(Include a sketch / diagram)

Tap the image for a potential answer



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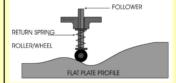
QUESTION 5a

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This is a Flat Plate CAM.

Describe how it functions.
Include in your description, the return spring and roller follower.

Tap the image for a potential answer



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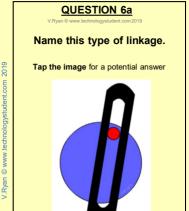




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FOLLOWER



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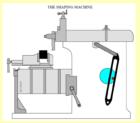


QUESTION 6b

The Shaping Machine relies on the linkage you named in the previous question.

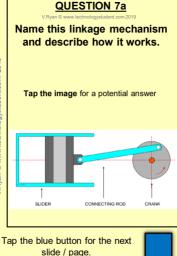
How does it drive the machine?

Tap the image for a potential answer



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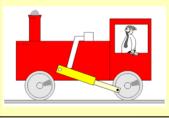


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Describe a practical application of the linkage mechanism you named in the previous question.

Tap the image for a potential answer



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QUESTION 7c

Name and describe the operation of this type of mechanism.

(Include a labelled sketch)

Tap the image for a potential answer

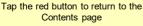


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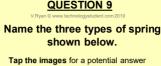
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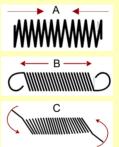


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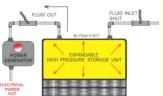


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Describe a practical application for each of the springs you named in the previous question.

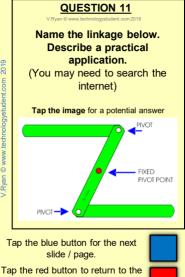
(You may need to search the internet)

Tap the image for a potential answer



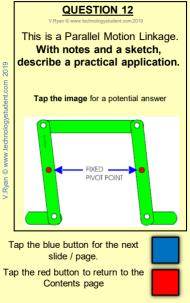
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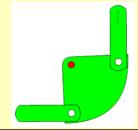
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Contents page



This is a Bell Crank linkage. With notes and a sketch. describe a practical application.

Tap the image for a potential answer



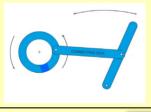
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This is a Treadle Mechanism Draw the diagram and then add the missing information. (Label the parts, input motion and output motion)

Tap the image for a potential answer



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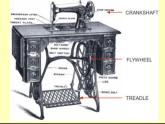




A Victorian application of a treadle mechanism is shown below. Sketch and describe ONE modern day practical application

of this type of mechanism.

Tap the image for a potential answer



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