

[Home](#) >

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Examination: [2017 SUMMER](#)

Que.No	Question/Problem	marks
<b>Q 1 a )</b>	<a href="#">Define inversion with example.</a>	2
<b>Q 1 b )</b>	<a href="#">List the inversions for double slider crank mechanism.</a>	2
<b>Q 1 c )</b>	<a href="#">Define sliding pair with example.</a>	2
<b>Q 2 a )</b>	<a href="#">Draw a neat sketch and explain working of beam engine.</a>	4
<b>Q 3 a )</b>	<a href="#">Differentiate between mechanism and machine.</a>	4
<b>Q 3 b )</b>	<a href="#">Explain the working of Whitworth quick return mechanism.</a>	4
<b>Q 4 a )</b>	<a href="#">Explain the working of freewheel mechanism of bicycle with sketch.</a>	4
<b>Q 6 a )</b>	<a href="#">Draw a neat sketch of Oldham's coupling and explain the working of it.</a>	4

Examination: [2017 WINTER](#)

Que.No	Question/Problem	marks
<b>Q 1a)(a)</b>	<a href="#">Define kinematic link and kinematic chain.</a>	2
<b>Q 1a)(a)</b>	<a href="#">Define kinematic link and kinematic chain.</a>	2
<b>Q 1a)(i)</b>	<a href="#">(a) Define : (i) Spherical pair (ii) Higher pair</a>	2
<b>Q 1 b )</b>	<a href="#">(b) Define : (i) Radial follower (ii) Off-set follower</a>	2
<b>Q 1 b )</b>	<a href="#">State any four types of friction clutch, along with its application each.</a>	4
<b>Q 1 b )</b>	<a href="#">Define slip and creep with reference to belt drive. Also state their effect on velocity ratio.</a>	4
<b>Q 1b)(a)</b>	<a href="#">Define completely constrained motion and successfully constrained motion with neat sketch. State one example of each.</a>	4

Que.No	Question/Problem	marks
Q 1 c )	<a href="#">What do you mean by crowning of pulleys in flat belt drive ? State its use.</a>	2
Q 1 d )	<a href="#">Define initial tension in belt drive &amp; state its effect.</a>	2
Q 1 e )	<a href="#">Define fluctuation of speed and fluctuation of energy in case of flywheel.</a>	2
Q 1 f )	<a href="#">Define the sensitivity in relation to governor. State its significance.</a>	2
Q 1 h )	<a href="#">State the adverse effect of imbalance of rotating elements of machine.</a>	2
Q 2 a )	<a href="#">Differentiate between machine and structure.</a>	4
Q 2 a )	<a href="#">What is a machine ? Differentiate between a machine and a structure.</a>	4
Q 2 b )	<a href="#">Explain with the neat sketch working of crank and slotted lever quick return mechanism.</a>	4
Q 2 b )	<a href="#">Describe with neat sketch the working of scotch yoke mechanism.</a>	4
Q 2 c )	<a href="#">Explain the inter-relation between linear and angular velocity, linear and angular acceleration with suitable example.</a>	4
Q 2 d )	<a href="#">Explain the Klein's construction to determine velocity and acceleration of a link in an I.C. engine mechanism.</a>	4
Q 2 e )	<a href="#">Draw the labelled displacement, velocity and acceleration diagrams for a follower when it moves with simple harmonic motion.</a>	4
Q 2 f )	<a href="#">A pulley rotating at 50 m/s transmits 40 kW. The safe pull in belt is 400 N/cm width of belt. The angle of lap is 170°. If coefficient of friction is 0.24, find required width of belt.</a>	4
Q 4 b )	<a href="#">Justify that slider crank mechanism is a modification of the basic four bar mechanism with neat sketch.</a>	4

Examination: [2016 SUMMER](#)

Que.No	Question/Problem	marks
Q 1a)(i)	<a href="#">Enlist the types of constrained motion. Draw a label sketch of any one</a>	2
Q 1b)(i)	<a href="#">State inversions of double slider crank chain. Explain Oldham's coupling with neat sketch</a>	4

Que.No	Question/Problem	marks
Q 2 a )	<a href="#">Draw a labeled sketch of quick return mechanism of shaper and explain its working....</a>	4
Q 2 b )	<a href="#">What are the types of kinematic pair ? Give its examples. ....MSBTE TOM SUMMER 2016 Q 2 b</a>	4
Q 4 b )	<a href="#">Justify with neat sketch elliptical trammel as an inversion of double slider crank chain.</a>	4

Examination: [2016 WINTER](#)

Que.No	Question/Problem	marks
Q 1a)(i)	<a href="#">Define Kinematic link with one example.</a>	2
Q 1a)(ii)	<a href="#">Name different mechanisms generated from a single slider crank chain.</a>	2
Q 1b)(i)	<a href="#">State any four inversions of single slider crane chain. Describe any one with neat sketch.</a>	4
Q 2 a )	<a href="#">Explain a scotch yoke mechanism with a neat sketch.</a>	4
Q 2 b )	<a href="#">What is machine ? Differentiate between a machine and a structure.</a>	4
Q 4 b )	<a href="#">Describe with neat sketch the working of Oldham's coupling.</a>	4

Examination: [2015 SUMMER](#)

Que.No	Question/Problem	marks
Q 1a)(a)	<a href="#">Define kinematic link and kinematic chain.</a>	2
Q 1b)(a)	<a href="#">Define completely constrained motion and successfully constrained motion with neat sketch. State one example of each.</a>	4
Q 2 a )	<a href="#">Differentiate machine and structure on any four points.</a>	4
Q 3 f )	<a href="#">Crank OA of a mechanism is hinged at 'O' and rotates at an angular velocity of 20 rad/sec.....</a>	4
Q 4 b )	<a href="#">Explain with the diagram working of crank and slotted lever quick return mechanism.</a>	4

Examination: [2015 WINTER](#)

Que.No	Question/Problem	marks
Q 1a)(i)	<a href="#">Define - 1. Mechanism 2.Inversion</a>	2

Que.No	Question/Problem	marks
<b>Q 1b)(i)</b>	<a href="#">Draw neat labeled sketch of crank and slotted lever mechanism. Label all parts.</a>	2
<b>Q 2 a )</b>	<a href="#">State and explain various types of constrained motions with suitable examples.</a>	4
<b>Q 2 b )</b>	<a href="#">Draw the neat labeled sketch of Oldham's coupling. State its applications.</a>	4
<b>Q 4 b )</b>	<a href="#">State the meaning of sliding pair, turning pair, rolling pair and spherical pair with one example each.</a>	4

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