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Subject Code

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Question Type

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Question Number

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Sub Number Question

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Sub Sub question Number

- Any - ▼

Apply

Examination: [2017 SUMMER](#)

Que.No	Question/Problem	marks
Q 1 a )	<a href="#">Define inversion with example.</a>	2
Q 1 b )	<a href="#">List the inversions for double slider crank mechanism.</a>	2
Q 1 c )	<a href="#">Define sliding pair with example.</a>	2
Q 1 d )	<a href="#">Define centripetal and tangential acceleration.</a>	2
Q 1 f )	<a href="#">Classify the cam</a>	2
Q 1 g )	<a href="#">Define following terms with respect to cam and follower</a>	2
Q 1 h )	<a href="#">What are the limitations of knife edge follower ?</a>	2
Q 1 i )	<a href="#">Define self-energizing and self-locking brake.</a>	2
Q 1 i )	<a href="#">Write down the formula of length of belt for open belt drive and cross belt drive.</a>	2

Que.No	Question/Problem	marks
Q 1 i )	<a href="#">List the methods to reduce the slip in belt and pulley.</a>	2
Q 1 k )	<a href="#">Define law of gearing.</a>	2
Q 1 m )	<a href="#">What are the limitations of shoe brake ?</a>	2
Q 1 n )	<a href="#">Define uniform wear theory and uniform pressure theory.</a>	2
Q 1 o )	<a href="#">State effects of imbalance in machine.</a>	2
Q 2 b )	<a href="#">Explain with neat sketch how to find the velocity of a slider in slider crank mechanism by Klein's construction.</a>	2

Examination: [2017 WINTER](#)

Que.No	Question/Problem	marks
Q 1a)(a)	<a href="#">Define kinematic link and kinematic chain.</a>	2
Q 1a)(a)	<a href="#">Define kinematic link and kinematic chain.</a>	2
Q 1a)(b)	<a href="#">State types of cams.</a>	2
Q 1a)(c)	<a href="#">State law of gearing.</a>	2
Q 1a)(d)	<a href="#">State the types of chains &amp; sprockets.</a>	2
Q 1a)(e)	<a href="#">State the function of flywheel in I.C. Engine.</a>	2
Q 1a)(f)	<a href="#">State the function of governor.</a>	2
Q 1a)(g)	<a href="#">Compare brakes and dynamometers. (any two points)</a>	2
Q 1a)(h)	<a href="#">Why is balancing of rotating parts necessary for high speed engines ?</a>	2
Q 1a)(i)	<a href="#">(a) Define : (i) Spherical pair (ii) Higher pair</a>	2
Q 1 b )	<a href="#">(b) Define : (i) Radial follower (ii) Off-set follower</a>	2
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

Examination: [2016 SUMMER](#)

Que.No	Question/Problem	marks
<b>Q 1a)(i)</b>	<a href="#">Enlist the types of constrained motion. Draw a label sketch of any one</a>	2
<b>Q 1a)(ii)</b>	<a href="#">Define (i) Pressure angle (ii) Pitch point related to cam.</a>	2
<b>Q 1a)(iii)</b>	<a href="#">How are mechanical drives classified?</a>	2
<b>Q 1a)(iv)</b>	<a href="#">Define: (i) Coefficient of fluctuation of speed. (ii) Coefficient of fluctuation of energy.</a>	2
<b>Q 1a)(v)</b>	<a href="#">Write any two disadvantages of chain drive.</a>	2
<b>Q 1a)(vi)</b>	<a href="#">Draw line diagram of porter governor</a>	2
<b>Q 1a)(vii)</b>	<a href="#">State the application of (i) Disc brake (ii) Internal expanding brake</a>	2
<b>Q 1a)(viii)</b>	<a href="#">Why is balancing of rotating parts necessary for high speed engines?</a>	2

Examination: [2016 WINTER](#)

Que.No	Question/Problem	marks
<b>Q 1a)(i)</b>	<a href="#">Define Kinematic link with one example.</a>	2
<b>Q 1a)(ii)</b>	<a href="#">Name different mechanisms generated from a single slider crank chain.</a>	2
<b>Q 1a)(iii)</b>	<a href="#">State the advantages of roller follower over knife edge follower.</a>	2
<b>Q 1a)(iv)</b>	<a href="#">Define slip and creep in case of belt drive.</a>	2
<b>Q 1a)(v)</b>	<a href="#">Give four advantages of chain drive over belt drive.</a>	2
<b>Q 1a)(vi)</b>	<a href="#">State the effect of centrifugal tension on power transmission.</a>	2
<b>Q 1a)(vii)</b>	<a href="#">Define fluctuation of energy and coefficient of fluctuation of energy.</a>	2
<b>Q 1a)(viii)</b>	<a href="#">State the adverse effect of imbalance of rotating elements of machine.</a>	2

Examination: [2015 SUMMER](#)

Que.No	Question/Problem	marks
<b>Q 1a)(a)</b>	<a href="#">Define kinematic link and kinematic chain.</a>	2
<b>Q 1a)(b)</b>	<a href="#">Enlist the different type of follower motion.</a>	2
<b>Q 1a)(c)</b>	<a href="#">Define angle of lap and slip in belt drive.</a>	2

Que.No	Question/Problem	marks
<b>Q 1a)(d)</b>	<a href="#">State four conditions under which the 'V' belt drive is selected.</a>	2
<b>Q 1a)(e)</b>	<a href="#">State the function of Governor in an I.C. engine.</a>	2
<b>Q 1a)(f)</b>	<a href="#">State four applications of flywheel.</a>	2
<b>Q 1a)(g)</b>	<a href="#">Give the classification of dynamometer. State the function of it.</a>	2
<b>Q 1a)(h)</b>	<a href="#">Why is balancing of rotating parts necessary for high speed engines ?</a>	2

Examination: [2015 WINTER](#)

Que.No	Question/Problem	marks
<b>Q 1a)(i)</b>	<a href="#">Define - 1. Mechanism 2.Inversion</a>	2
<b>Q 1a)(ii)</b>	<a href="#">State any two types of motion of the follower.</a>	2
<b>Q 1a)(iii)</b>	<a href="#">Define slip and creep in the belt.</a>	2
<b>Q 1a)(iv)</b>	<a href="#">State any two advantages of V belt drive over flat belt drive.</a>	2
<b>Q 1a)(v)</b>	<a href="#">State the function of flywheel in IC engine.</a>	2
<b>Q 1a)(vi)</b>	<a href="#">Define stability and hunting of governor.</a>	2
<b>Q 1a)(vii)</b>	<a href="#">Compare brakes and dynamometers (two points).</a>	2
<b>Q 1a)(viii)</b>	<a href="#">State any two adverse effects of imbalance.</a>	2
<b>Q 1b)(i)</b>	<a href="#">Draw neat labeled sketch of crank and slotted lever mechanism. Label all parts.</a>	2
<b>Q 1b)(ii)</b>	<a href="#">What is the necessity of clutch? State its types.</a>	2

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