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Subject Code

- Any - ▼

Question Type

- Any - ▼

marks

- Any - ▼

Question Number

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Sub Number Question

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Sub Sub question Number

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Apply

Examination: [2017 SUMMER](#)

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

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

Examination: [2017 WINTER](#)

Que.No	Question/Problem	marks
Q 1a)(a)	Define kinematic link and kinematic chain.	2
Q 1a)(a)	Define kinematic link and kinematic chain.	2
Q 1a)(b)	State types of cams.	2
Q 1a)(c)	State law of gearing.	2
Q 1a)(d)	State the types of chains & sprockets.	2
Q 1a)(e)	State the function of flywheel in I.C. Engine.	2
Q 1a)(f)	State the function of governor.	2
Q 1a)(g)	Compare brakes and dynamometers. (any two points)	2
Q 1a)(h)	Why is balancing of rotating parts necessary for high speed engines ?	2
Q 1a)(i)	(a) Define : (i) Spherical pair (ii) Higher pair	2
Q 1 b)	(b) Define : (i) Radial follower (ii) Off-set follower	2
Q 1 c)	What do you mean by crowning of pulleys in flat belt drive ? State its use.	2
Q 1 d)	Define initial tension in belt drive & state its effect.	2
Q 1 e)	Define fluctuation of speed and fluctuation of energy in case of flywheel.	2
Q 1 f)	Define the sensitivity in relation to governor. State its significance.	2
Q 1 h)	State the adverse effect of imbalance of rotating elements of machine.	2

Examination: [2016 SUMMER](#)

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

Examination: [2016 WINTER](#)

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

Examination: [2015 SUMMER](#)

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

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

Examination: [2015 WINTER](#)

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