irstranker's choic	€	1.750	® [™] ,	5 VV	v.Fi	56 ti	Ranker.com		www	.Firstl	Rar	nker.co	ωĒ					
	The me OIA = O2D = rad/s. I method	dead dead from from	7 7	ç :	e 1	9	≦. <	-	· E		=:	-	Solve	Instruction 1.	Max I	Subje	Cours	
200 mm	The mechanism of a wrapping machine, as shown in figure, has the dimensions are OIA = 100 mm, AC =700 mm, BC -200 mm, O2C = 200 mm, O2E = 400 mm, O2D = 200 mm and BD = 150 mm. The crank OIA rotates at a uniform speed of 100 rad/s. Find the velocity of point E of the bell crank lever by instantaneous Centre method	dead Centre position, determine by relative velocity method, 1) velocity of piston, dead Centre position, determine by relative velocity of point E on connecting rod 1.5m 2) angular velocity of connecting rod,3) velocity of point E on connecting rod 1.5m from gudgeon pin, 4) velocities of rubbing at the pins of crankshaft, crank and crosshead when the diameters of their pins are 50 mm,60 mm and 30 mm respectively.	The crank and connecting rod of a steam engine are 0.5 m and 2 m long respectively. The crank makes 180 mm in clockwise direction. When it has turned 45° from inner	Salve Any One of the following.	State and Explain Kennedy's Theorem	Define Kinematic pair. Classify in detail	If the links moves in opposite direction, rubbing velocity in parts (a) ($\omega_1 - \omega_2$) (b) ($\omega_1 + \omega_2$) (d) $\omega_1 r$ (d) r, ω^2 (a) ($\omega_1 - \omega_2$) (b) ($\omega_1 + \omega_2$) (d) $\omega_1 r$ (d) r, ω^2 (e) At a state of the link joining 2 points (e) perpendicular to link joining 2 points (f) None of these	body is called as (a) Body centrod (b) Space centrod (c) Axode (d) None of these	Lead screw of a lattic with nut forms a (a) Sliding pair (b) Rolling pair (c) Screw pair (d) Turning Pair (d) Turning Pair (e) Screw pair (d) Turning Pair	(a) Watts indicator diagram (c) Beam engine (c) Elliptical Transmel (d) All of these	rsion of si	A kinematic chain is known as a mechanism when (a) None of the link fixed (b) One of the link is fixed (c) Two of the links are fixed (d) None of these		Figures to the right indicates full marks Assume suitable data, if and wherever necessary	Max Marks: 20 Date:- Duration:- 1 Hr	Subject Name: Theory of Machine - I Subject Code: BT-MEC 402	Course: B. Tech in Mechanical Engineering Sem: III	Mid Semester Examination - March 2019
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