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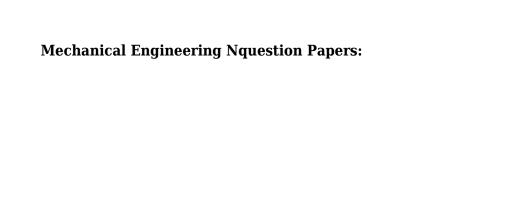
# IV Semester Diploma Examination, May 2011

## MECHANICAL ENGINEERING BOARD

	M	AC	THINE DESIGN & THEORY OF MACHINES	
Tin	ne:	3 Ho	[ Max. Marks : 1	00
Notes: (1		(1)	Question No 1 is compulsory.	
		(2)	Answer any two full questions from Sections - II, III & IV.	
		(3)	Missing data may be suitably assumed.  SECTION -1  I in the blanks:  5 × 1	
			SECTION -1	
1. (a	(a)	Fil	l in the blanks:	- 5
		(i)	Shaft with collars at both ends fitted in a circular hole is pair.	
		(ii)	Two shafts A and B are of the same material. Diameter of A is twice as that of B. The power transmitted by the shaft A will be times that of by Shaft B.	
		(iii	The nictional torque transmitted in a flat pivot bearing considering uniform pressure is	
	3	137	The size of the cam depends upon	
	11	(v)	The power transmitted by a belt is maximum when the maximum tension is equal to times the centrifugal tension.	
	(b)	Sko	etch and explain elliptical trammel.	5
			SECTION - II	
	(a)	De	fine the following:	-4
		<b>(i)</b>	Kinematic pair	
		(ii)	Structure	
	(b)	Dif	Terentiate machine and structure.	4
	(c)	Exp	plain with neat sketch, the Oldham's coupling.	7

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