M.Tech. 2nd Semester Mechanical Engg. (Machine Design) Examination, May-2017

DESIGN OF MECHANISM

Paper-M-804-A

Time	allowed : 3 hours]	[Maximum marks: 100
Note: Attempt only five questions.		
1.	Explain methods to determine mechanism.	mine DOF for various
2.	Explain synthesis of mechanis evaluation.	sm along with methods of 20
3.	Explain matrix methods of de	sign. 20
4.	Explain type synthesis and num	ber synthesis in detail. 20
5.	Explain design and analysis us	ing ADAMS. 20
6.	Classify manipulators with ex	amples in detail. 20
7.	Derive Freudenstein equation	. 20
8.	Design a slider crank mechanism so that displacement of slider is proportional to square of crank rotation in interval $45^{\circ} \le \phi_2 \le 135^{\circ}$. Use the three point Chebyshev Spacing.	

22232–P-1-Q-8 (17)