B.Tech. MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination June, 2013

BIMEE-018: INDUSTRIAL ERGONOMICS

Time	: 3	hours N	Maximum Marks : 70
Note	:	Answer any five questions. All q marks.	uestions carry equa
1.	State some laws of ergonomics and how do you use them in human effort design.		
2.	(a)	strength.	
3.	Briefly outline the factors that determine the worker's efficiency. Explain, how ergonomic helps in improving worker's efficiency.		
4.	Explain the principles of sedentary workplace design. Also discuss the advantages, disadvantages and limitations of sedentary works.		
5.	mı ex	iscuss the factors that le usculoskeletal disorders among w plain the bio-mechanical model o wer back.	vorkers. Also

- 6. List and explain the ill effects of hand-arm 14 vibration and whole body vibration.
- 7. (a) What do you mean by indoor air quality? 7
 What are the elements that determine indoor air quality? Explain the effect of each element on human health.
 - (b) Give the regulations that are to be followed for protection against noise in an industry.

7