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VII SEMESTER B.TECH. (INDUSTRIAL AND PRODUCTION ENGINEERING) END SEMESTER EXAMINATIONS, NOV/DEC 2016

SUBJECT: ERGONOMICS [MME 465]

REVISED CREDIT SYSTEM (06/12/2016)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **Any Five full** questions.
- Missing data may be suitable assumed.

1A.	What is Ergonomics? What are the assumptions in Ergonomics?					
1B.	What are the different Ergonomics problems?	02				
1C.	Explain with examples various elements of man-machine system,	05				
2A.	Explain in detail various characteristics of system. Write a note on reliability of					
	system					
2B.	Explain Information theory. How do you measure information.	05				
3 A	Explain various types of information presented by displays.	05				
3B.	What are the biases in decision making?	03				
3C	State and explain Fitt"s Law.	02				
4A.	When do you use Auditory Displays	02				
4B	Write a note on stress and performance. What do you mean by Endurance?	03				
4C	Explain various factors influencing design of controls. Write a note on Cranks					
	and hand wheel design.	and wheel design.				
5A.	Explain the terms, Accommodation, Convergent and Color Discrimination					
	with example					
5B	Write a note on Anthropometry. What are the uses of Anthropometric data?	05				
6A	Explain the principles of seat design with sketch.	05				
6B	What are the effect of noise, vibration and illumination on performance	05				

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