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Manipal Institute of Technology, Manipal

Manipal KNOWLEDGE IS POWER WITH COMMENTS OF THE PARTY OF

(A Constituent Institute of Manipal University)

VII SEMESTER B.TECH (INDUSTRIAL AND PRODUCTION EGINEERING) END SEMESTER EXAMINATIONS, NOV/DEC 2015

SUBJECT: ERGONOMICS [MME 465]

REVISED CREDIT SYSTEM

Time: 3 Hours MAX. MARKS: 50

	Instructions to Candidates:	
	 Answer ANY FIVE FULL the questions. . 	
1A.	What is Ergonomics? Explain the role of an Ergonomist.	(02)
1B.	Define information. How information is computed?	(03)
1C.	With a block diagram explain briefly the components of a Human Sensorimotor system.	(05)
2A.	Distinguish between Open loop and Closed loop systems.	(02)
2B.	Write a note on System reliability.	(04)
2C.	Explain the basic functions performed by the components of Human-Machine system.	(04)
3A.	"Systems operate in an environment" Elaborate.	(02)
3B.	How the arrangement of components within a physical space is made?	
3C.	Explain the basic types of body movements with regard to biomechanics of human motion.	(04)
4A.	List the circumstances in which auditory displays are preferable.	(03)
4B.	Briefly explain the primary coding methods adopted in the identification of controls.	(04)
4C.	Write a note on Workspace envelope.	(03)
5A.	What is decision making? List the biases in decision making.	(03)
5B.	Explain the general principles of seat design.	(03)
5C.	Briefly explain the visual capabilities of human visual system.	(04)

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6A.	Explain the effect of vibration on performance.	(02)
6B.	Explain briefly the specific features of conventional quantitative displays.	(04)
6C.	Discuss the principles in the application of Anthropometric data.	(04)

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