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**MANIPAL INSTITUTE OF TECHNOLOGY**  
**MANIPAL**  
*A Constituent Institution of Manipal University*

**VII SEMESTER B.TECH. (I & P ENGG.)**

**END SEMESTER MAKE UP EXAMINATIONS DEC 2016/JAN 2017**

**SUBJECT: ERGONOMICS [MME 465]**

**REVISED CREDIT SYSTEM  
(06/01/2017)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

❖ Answer **ANY FIVE FULL** questions.

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|------------|--|-----------|
| <b>1A.</b> | What are the cost of ignoring Ergonomics   | <b>03</b> |
| <b>1B.</b> | Explain various types of systems with examples                                     | <b>05</b> |
| <b>1C.</b> | What do you mean by Bit of information   | <b>02</b> |
| <b>2A.</b> | Explain various stages of Information processing                                   | <b>05</b> |
| <b>2B.</b> | Explain with sketch the process of Seeing in humans                                | <b>05</b> |
| <b>3A</b>  | What do you mean by Visual Acuity  | <b>03</b> |
| <b>3B.</b> | Explain with sketch any two qualitative displays                                   | <b>03</b> |
| <b>3C</b>  | Write a note on Auditory displays  | <b>04</b> |
| <b>4A.</b> | With a line diagram explain Human activity Continuum                               | <b>03</b> |
| <b>4B</b>  | Explain the factors influencing energy expenditure                                 | <b>04</b> |
| <b>4C</b>  | What do you mean by movement time  | <b>03</b> |
| <b>5A.</b> | Explain various principles to arrange component                                    | <b>05</b> |
| <b>5B</b>  | Explain long-term memory and working memory  | <b>05</b> |
| <b>6A</b>  | Differentiate between production and productivity. How do you improve productivity | <b>05</b> |
| <b>6B</b>  | Explain various techniques to handle noise problem                                 | <b>05</b> |