B.Tech. MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination June, 2014

BIMEE-006: TRIBOLOGY

| Time: 3 hours | | Maximum Marks : 70 | |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---|
| Not | e: Answer any five of the following q contain equal mark. | uestions. Each questio | n |
| 1. | State and explain the laws of f describe the working of cro arrangement for measurement of | ss - cylinder | 4 |
| 2. | Explain the effects of surface rough Differentiate between wavines roughness. Explain the method measurement of surface roughness | ss and surface d used for the | 4 |
| 3. | What is boundary lubrication? Ewith the help of sketches. | xplain in detail 1 | 4 |
| 4. | State the assumptions made in Reynold's equation and also derive quation in two dimensions. | | 4 |
| 5. | Define Wear ? Discuss various tare used for its measurement. | techniques that 1 | 4 |

- 6. Explain the construction and working of thrust 14 bearing with the help of neat diagram.
- Write short notes on the following : 7. 14

 - (a) Dry Friction.(b) Wear Resistance Materials.