**BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI**

**HYDERABAD CAMPUS**

**Course No. BITS F 399**

**Course Name- Humanistic Theory of Science and Technology**

**CE (Closed Book) Max. Marks: 35**

**Time: 3 hours Weighting: 35%**

**Separate each point in your answer with a new paragraph and number them such as a, b, c**

**Answers all parts of a question together.**

**Section A**

1. Answer the following [2x5 (No word limit but answer should be specific to the question)
   1. What is realism?
   2. What is Feminist Empiricism?
   3. Why ANT is called a materialist theory?
   4. What is technological determinism?
   5. What does ‘translating interests’ mean in actor network theory?
2. Answer the following [Each answer should be in 4-5 Key points (Marks: 5x3=15)
   1. Explain ‘heterogeneous construction’ with the example of George Papanicolau’s Pap Smears.
   2. Discuss ‘Transversely Excited Atmospheric (TEA) Laser’ study to explain tacit knowledge
   3. Discuss ‘miniaturization movement’ in the first half of twentieth century and its role in commercialization and new consumer application.
3. Distinguish dominant models of Science Popularization from deficit model of Public Understanding of Science. Identify and examine specific problems of Dominant Model with the example of Woo Suk Hwang episode from the Seoul National University. [4+6