

**Ref. No. : Ex/ME(M2)/HS/B/HUM/T/116/2023(S)**

B.E. MECHANICAL ENGINEERING  
FIRST YEAR FIRST SEMESTER  
SUPPLEMENTARY EXAM - 2023  
HUMANITIES AND SOCIOLOGY

Time: 3 HOURS

Full Marks: 100

Answer all the Questions from Section A and Section B

Section A

1. How did logical positivism & Falsificationism define science? (15) CO-1
2. How did Science and Technology serve as an instrument of domination for the State in Post-Independent India. (15) CO-2
3. Discuss the concept of the industrial revolution and highlight its defining characteristics. (15) CO-3
4. Elaborate on the relationship between slavery and Industrial Revolution. (15) CO-4
5. Historically trace position of women in STEM. (15) CO-5
6. Discuss the emergence of the Post-Industrial Society as stated by Daniel Bell. Is it "an appealing place to live"? Why? (15) CO 6

Section B

7. Explain the concepts of Polytechnics and Monotechnics given by Lewis Mumford. (5) CO-1
8. Explain how did functionalism define science? (5) CO-1