SOCM-602

**Science, Technology and Society**

**Total Marks- 80**

Objective: This paper is meant for Sociological understanding science and its respectable sibling i.e. technology. It will also enable Students to learn the impact of science and technology on the society.

**Unit – 1: Knowledge and Science 16 Marks**

Meaning, Ethos and a Brief History of Development of Science from Babylonian

Rulers to the Present times, Philosophy of Scientific knowledge Social

Understanding of Science. Objective Methodology in Science.

**Unit – 2: Technology and Society 16 Marks**

Meaning of Technology, Empirical Rationality and Growth of Technology in Human

Society. Significance of Technology in Culture. Levels of Technology.

**Unit-3 : Theories of Technological Development. 16 Marks**

(i) Evolutionary ( L.H. Morgan)

(ii) Technology and its Acceleration (Hornel Hart)

(iii) Technology as an Economic Determinism and Social Change (Marx) & weber

(iv) Periodic Development of Technology (Lewis Mumford)

**Unit – 4 : Technology and social change 16 Marks**

Structural Change in Technology Growth of Industry, Urbanism, Modernization,

Impact of Technology on Major Social Institutions of India- Family, Marriage,

Religion Economy, Polity and Education.

**Unit- 5 : Technological Modernization in present day human 15 Mark**

Society – Specifically in formation technology, Information Technology (IT) – Its

meaning and Types. Basic Concepts- Multimedia, Computer, Internet Information

Networking- Components of Information Network, Information Networking in Society, Classification of Information Networks and the Impact of the same in Indian Society.

**Essential Readings**:

1. Berger, P. and Luckmann , T ( 1967) The Social Construction of Reality, London, Allen lane

2. Bernal J.D. (1957) Sciences in History, London watts P.S.

3. Merton R.K. (1965) Social Theory and Social Structure , New-York Free Press.

4. Dampiere, W.J. (RP) History of Science New Delhi, S.Chand & Co.

5. Cohen, Marris Morries and Nagel Earnest (1972)

An Introduction to Logic of Scientific Method New Delhi, Allied Publishers.

6. Ghosh B.N. – Scientific Method and Social Research, Allied Publisher, New Delhi

7. Ogburn and Nimkott A Handbook of Sociology, London, Routledge and Kegan paul.

8. Fletcher Ronald, (1994) “ The Making of Sociology – A Study of sociological Theory Vol- (I&II) New Rawat Publications, Delhi (1994)

9. Dube S.C. Understanding change, New Delhi Vikas Publication.