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Paper VI

SCIENCE, TECHNOLOGY AND
MEDICINE IN COLONIAL INDIA

First Half

Unit I : Science and Society : Theoretical Perspectives.

- (a) Conceptual aspects of Western Science
- (b) Debates regarding the nature and growth of Western Science and Technology.
- (c) The role and place of Science in the Colonial process.

Unit II : Medicine, Health, Disease : Theoretical overview.

- (a) Origin, nature and growth of European concepts of disease and Medicine.
- (b) State of medicine in India in pre-colonial era.
- (c) Role of medicine in the colonial process, Indian Medical Service.

Unit III : Science and Colonial Explorations

- (a) State of Science and Technology on the eve of British conquest.

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(b) East India Company and Scientific explorations.

(c) Early European Scientists : Surveyors, botanists, geologists under the E. I. Company's service.

Unit IV : Growth of Techno-Scientific Institutions

- (a) Scientific and technical education : establishment of engineering and medical colleges and Institutes, Teaching of Science in Universities.
- (b) Establishment of Scientific institution : Survey of India, Geological Survey of India, and agricultural experimental farms.

Second Half

Unit V : Western Science and Indian Response

- (a) Indian response to new scientific knowledge : interaction and predicaments.
- (b) Science and India nationalism : Emergence of national science and its relations vis-a-vis colonial science : Mahendralal Sarkar, P. C. Ray, J. C. Bose.