2007

INFORMATION SCIENCE

PAPER-I

Full Marks 80

Time: 31 hours

Answer **Q. No. 1** and any *four* **questions**, **taking one** from each Unit

The figures in the right-hand margin indicate marks

- 1. Write briefly on any two of the following: 8×2
 - (a) Knowledge Pentagon Model: The role of libraries.
 - (b) Open Knowledge Movement: Features and advantages.
 - (c) Theory of Integrative Levels and Knowledge. Organisation.
 - (d) Elasticity of Demand for Information.

UNIT-I

2. (a) Sum up the vision of Semantic Web as propounded by W3C.

- (b) Explain in brief the use of the core tools of Semantic Web in knowledge organisation process.
- (c). Examine the role of Taxonomy, Thesaurus and Ontology as knowledge organisation tool. 4+6+6
- (a) Delineate Machlup's approach to Information Science as a cluster of many disciplines wherein the central core is information.
- (b) Examine the implications of Ranganathan's Five
 Laws of Library Science in the context of
 Information Science. 8+&

UNIT-II

- Describe the concept of Sociology of Knowledge as propounded by Karl Mannheim. Discuss the Knowledge Generation, Exchange and Utilisation (KGEU) process with illustration.
- What are the major components of knowledge infrastructure? Critically evaluate the knowledge infrastructure of India in the field of Science and Technology.

UNIT-III

6. What is meant by modes of formation of subjects?Explain, with examples, the various modes through which different subjects are formed.

MLISC/I/07 (Continued).

7. What is absolute syntax? How does it differ from linguistic syntax? Critically examine the role of Ranganathan's Postulate of Absolute Syntax in knowledge / information organisation.

UNIT-N

- 8. What are different pricing types adopted for marketing of information products and services? Examine the role of equilibrium analysis in price determination in the situation arising out of changes in prices but when other factors affecting demand and supply remain constant. 4+12
- 9. What is market segmentation? Identify and describe the bases for market segmentation in library and information sector. Explain how different strategies of market segmentation can be implemented efficiently in libraries and information agencies.
 2+8+6

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