

This question paper contains 2 printed pages.

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**Paper M-111(b) : PRINT AND ELECTRONIC SOURCES
AND LITERATURE IN NATURAL SCIENCES
(INTERDISCIPLINARY PAPER)**

Time : 3 hours

Maximum Marks : 70

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

Attempt all questions.

1. Either, 1.1 Discuss the major development and trends in Chemistry during 20th century.

- Or, 1.2 Define the concepts 'Information Needs', 'Information Wants', and 'Information Demands'. Discuss, the various categories of information needs. 12.5

2. Either, 2.1 What do you understand by information seeking behaviour? Discuss, with examples the various information sources required by Biologists.

- Or, 2.2 Discuss the usefulness of periodical as a primary channel of S&T information. Examine by giving examples, the bibliographical control of this category of literature. 12.5

P.T.O

3. Either, 3.1 Mention the check points found suitable for evaluation of online databases. Evaluate WOS (Web of Sciences) or SCOPUS.

Or, 3.2 Discuss the concepts, 'Consortia and Subject Gateways'. Describe online services in the field of Physical sciences. 12.5

4. Either, 4.1 'IACR act as UGC in context of Higher education in agriculture in India'. In the light of above, discuss the role of ICAR in the growth and development of agricultural education, research and extension in India.

Or, 4.2 Discuss the major activities of NISCAIR, IIEEE and DESIDOC. 12.5

5. Write notes on any *four* of the following :

(i) HJ Bhabha

(ii) Dr. APJ Abdul Kalam

(iii) Charles Robert Darwin

(iv) Isaac Newton

(v) Indian Science Abstracts

(vi) AGRICOLA.

(5 x 4)