

# General Studies

B.A.: Optional

## **GENERAL STUDIES : OPTIONAL** **(FOR ARTS STUDENTS)**

### **Outlines of Tests**

Paper	Title of Course	Marks
'A':		100

### **Syllabi and Courses of Reading**

#### ***History of Science:***

Science and Technology in Ancient and Medieval Times. The Compermican Theory; The Mechanical Universe; The Circulation of the Blood; The Pressure of the Air; The Early Microscopist; The Seventeenth Century; The Creation of Modern Chemistry; The Heroic Age of Biology. The Eighteenth Century; The Atomic Theory; The Wave Theory of Light; The Conservation and Dissipation of Energy; Field Physics; The Rise of Organic Chemistry; Evolution; The Germ Theory of Disease. The Nineteenth Century Genetics and Neo-Darwinism; The Structure of the Atom; The Twentieth Century.

#### ***Text Books:***

The Major Achievements of Science, Vol. I by A.E.E. McKenzied, published by Oxford University Press Karachi, by arrangement with Cambridge University Press. Only the following Chapters from this book are prescribed for study:-

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|-----|---------|----|--|
| 1.  | Chapter | 1  | Science and Technology in Ancient and Medieval Times.          |
| 2.  | Chapter | 4  | The Circulation of the Blood.                                  |
| 3.  | Chapter | 5  | The pressure of the Air.                                       |
| 4.  | Chapter | 6  | The Early Microscopists.                                       |
| 5.  | Chapter | 8  | The Creation of Modern Chemistry (excluding Phlogiston Theory) |
| 6.  | Chapter | 11 | The Atomic Theory.   |
| 7.  | Chapter | 13 | The Conservation and Dissipation of Energy.                    |
| 8.  | Chapter | 16 | Evolution.   |
| 9.  | Chapter | 17 | The Germ Theory of Disease.                                    |
| 10. | Chapter | 20 | The Structure of the Atom.                                     |
| 11. | Chapter | 24 | The Twentieth Century.   |

Twenty questions spread uniformly over the selected Chapter of the book will be set for the examination and the students will be required to answer only five questions.

## **GENERAL STUDIES : OPTIONAL** **(FOR SCIENCE STUDENTS)**

**Outlines of Tests**

Paper	Title of Course	Marks
'A'		100

**Syllabi and Courses of Reading**

**Civilization Past and Present**

(A)

The Stone Age. The Nature and Origin of Civilization, Egyptian, Mesopotamian, Ancient Persian, Hebrew, Agean, Ancient Indian, Hellenic, Hellenistic, Roman, Medieval, Renaissance and Modern European Civilization.

(B)

Aspects of Muslim Culture under the Abbasids in Spain; Iran and the Indo-Pakistan sub-continent.

**Text-book:**

World Civilization—From Ancient to Contemporary (Abridged Edition, published by Oxford University Press, Karachi) by Burns and Ralph (New York, W.W. Norton and Company).

Aspects of Muslim Civilization--- Published by Oxford University Press, Karachi.