

**M. SC. (MEDICAL BIOTECHNOLOGY) SEM-III (CHOICE
BASED CREDIT SYSTEM) :WINTER - 2017
SUBJECT: NON COMMUNICABLE DISEASES**

Day: **Monday**
Date: **06/11/2017**

W-2017-1055

Time: **10.00 AM TO 01.00 PM**
Max. Marks: 60

N.B.:

- 1) **Q. No 1 and Q. No. 5 are COMPULSORY.** Answer any **TWO** from Questions 2, 3 and 4 and from 6, 7 and 8.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.

SECTION-I

- Q.1** Answer any **FIVE** of the following: **(10)**
- a) What are oncogenes?
 - b) What are tumor necrosis factors?
 - c) Environmental factors critical to Asthama.
 - d) What is the importance of LDH in myocardial infarction?
 - e) What are advanced glycation end products?
 - f) Name two carcinogenic agents.
- Q.2** Answer the following: **(10)**
- a) What is the molecular basis for development of cancer?
 - b) Which are the risk factors in cardiovascular diseases?
- Q.3** Explain the following: **(10)**
- a) Diagnostic enzymes.
 - b) Pathological features of Alzheimer's disease.
- Q.4** Write short notes on any **TWO** of the following: **(10)**
- a) Social aspects of mental disorders
 - b) Ischemic heart disease
 - c) Prevention and control of Asthama

SECTION-II

- Q.5** Answer the following question: **(10)**
- a) What are biomarkers? How are they useful in early diagnosis of adult diseases (Illustrate with one example)
 - b) Define epigenetics and explain its role in susceptibility to noncommunicable diseases.
- Q.6** Answer any **TWO** of the following questions: **(10)**
- a) Explain the concept of fetal origin of adult diseases.
 - b) Define role of micronutrients/ nutraceuticals in prevention of noncommunicable diseases.
 - c) How lipid profile is useful in diagnosis of noncommunicable disease?
- Q.7** Distinguish between :
- a) Communicable and non communicable diseases.
 - b) Malignant and nonmalignant cells.
- Q.8** Attempt any **ONE** of the following
- a) Give three examples of recombinant DNA therapeutics in treatment of non communicable diseases.
 - b) Distinguish between Schizophrenia and Alzheimer disorders.