M. SC. (MEDICAL BIOTECHNOLOGY) SEM-III (CHOICE BASED CREDIT SYSTEM) :WINTER - 2017

SUBJECT: NON COMMUNICABLE DISEASES

Day: **Monday** Time: **10.00 AM TO 01.00 PM**

Date: **06/11/2017** **W-2017-1055** 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.

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