Registration no: | | | | | | | | | | |

Total Number of Pages: 02

MPHARM
M PH 2B.3

2nd Sem Regular / Back Examination – 2015-16
ADVANCED MEDICINAL CHEMISTRY-III
Q.CODE:W990
Time: 3 Hours
Max marks: 70

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

Q1 Answer the following questions: (2 x 10)

a) Write the structure of any two anticancer antibiotics
b) Give two examples of endogenous amines and mention their role in mental disorders.
c) Write the toxicity and clinical significance of phenothiazine.
d) What are prostaglandins? Mention their important functions.
e) What are MOA inhibitors? Mention their mode of action.
f) Write the therapeutic uses of Vasopressin receptor agonist and antagonist.
g) What are biomarkers? Give two examples of biomarkers used in diagnosis.
h) Write the mode of action of H_2-recepter antagonist. Mention their uses.
i) Give two examples of orphan drugs along with their uses.
j) Write the mechanism of action of alkylating agents.

Q2 Give a detailed classification of antineoplastic agents with suitable examples. Mention the mode of action, SAR and uses of antimetabolites (10)

Q3 Write the mechanism of action, clinical uses and side effects of tricyclic antidepressants. Give the synthesis of amitryptiline. (10)

Q4 What are Antilipedemic agents? Classify those giving examples. Discuss their clinical significance. Give the synthesis and mechanism of action of theofibrate and probucol (10)

Q5 Give a detailed account on the recent advances in the development of Antiparkinsonian agents Give the synthetic scheme of levodopa and chlorphenoxamine. (10)

Q6 Write Short Notes on

(a) Insulin (5)
(b) Antirheumatic agents (5)

Q7 Write Short Notes on (5)

(a) Natural products used in the treatment of cancer (5)

(b) Thyroid Hormones

Q8 Write synthesis of the following (2.5x4)

a) Chlorambucil
b) Diphenhydramine
c) Chlorpromazine
d) Imipramine