Ex/Pharm/T/425B/2017(old)

Name of the Examination: B.PHARMACEUTICAL TECHNOLOGY FOURTH YEAR SECOND

SEMESTER(Old)-2017

Subject: NEWER DRUGS AND

BIOTECH. APPLICA-II

Time: Three Hours

Full Marks: 100

Answer any five questions taking at least two from each group

Group-A

- Q.1.Define bio-isosterism and bio-similar drugs with illustration. Define agonist, antagonist, partial agonist and reverse agonist. What are the approaches leading to con formational and topological changes in the receptor site influenced by drug molecule. 5+5+10
- Q.2. What are GPCRs? Explain its involvement in different physiological processes. Explain the signal transduction process for cellular response.

 3+7+10
- Q.3.Explain briefly the drug discovery process. What are the limitations? What are newer approaches adopted to reduce the limitation? 12+3+5
- Q.4.What are physico-chemical properties relevant to know about a new drug molecule? Discuss about Ferguson principle, Hammett equation and Hantszch analysis. 5+5+5

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B. PHARMACEUTICAL TECHNOLOGY, FOURTH YEAR SECOND SEMESTER, 2017

Subject: NEWER DRUGS AND BIOTECH.APPLICA II Time: 3hrs Full Marks: 100

GROUP - B

Use separate answer scripts for each Group / answer any five questions

5	Write notes on	4x5=20
	a) UMP biosynthesis pathway	
	b) Classification of dihydroorotate dehydrogenase	
	c) Leflumomide metabolite as inhibitor dihydroorotate dehydrogenase	
	d) Drug binding sites of dihydroorotate dehydrogenase	
6.	Discuss about the Helicobactor pyroli dihydroorotate dehydrogenase as drug target	20

7. Discuss about the Plasmodium falciparum dihydroorotate dehydrogenase as drug target