

Ref. no. EX/PHAM/T/425B/2018

BACHELOR OF PHARMACY EXAMINATION 2018

4th year 2nd Semester(NEW)

SUB: newer Drugs and Biotech. Applied-II Time -3 hours Full Marks-100

GROUP - A

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

1. Write short note on 4X5=20
 - i) UMP biosynthesis pathway
 - ii) Classification of dihydroorotate dehydrogenase
 - iii) Leflumomide metabolite as inhibitor of dihydroorotate dehydrogenase
 - iv) Drug binding sites of dihydroorotate dehydrogenase
2. Discuss about the *Helicobacter Pylori* dihydroorotate dehydrogenase as drug target. 20
3. Discuss about the *Plasmodium falciparum* dihydroorotate dehydrogenase as drug target. 20

4th YEAR 2nd SEMESTER EXAMINATION, 2018

SUBJECT NEWER DRUGS AND BIOTECHNOLOGICAL APPLICATIONS-II

Time: Three hours

Full marks: 100

Use separate answer – script for each part

Group B

4. (a) With a neat diagram explain the biological clock cycle of men. Explain two diseases with well-established circadian rhythm. 4+6
- (b) What do you understand by the term “Pulsatile Drug Delivery”? Explain such systems based on Osmosis and change on membrane permeability. 2+8
5. (a) Enlist the various stimuli considered for the release of the drug by pulsatile systems. Elaborate Magnetic field and temperature. 4+6
- (b) Elaborate the disadvantages of conventional and sustained release drug delivery systems. Why pulsatile delivery systems are designed 5+5
6. With a suitable diagram write short notes on the following technologies 5x5
- I. OROS[®]
 - II. CONTIN[®]
 - III. DIFFUCAPS[®]
 - IV. EGALAT[®]