PARUL UNIVERSITY FACULY OF PHARMACY M.Pharm. Winter 2017-18 Examination

Semester: 1 Subject Code: MPL102T Subject Name: Advanced Pharmacology-I

Instructions:

1. Figures to the right indicate maximum marks.

2. Make suitable assumptions wherever necessary.

Q.1 Essay Type Questions. (any 2 out of 3) (15 Mark Each)

- 1. Describe the structure of GABA-A receptor complex with different binding sites. Explain therapeutic indications of drugs affecting this receptor complex.
- 2. Explain key pathways of platelet activation and aggregation. Discuss platelet receptors and antiplatelet agents used in the management of thromboembolic disorders.
- 3. Explain role of microsomal and non-microsomal enzymes in drug biotransformation and write on induction and inhibition of drug metabolizing enzymes. Describe any one clinically important metabolism drug interaction.

Q.2 Short Essay Type Questions. (any 5 out of 6) (5 Mark Each)

- 1. What are low molecular weight heparins? Write advantages of these agents over heparin.
- 2. Classify class-I anti-arrhytmmic agents. Explain advantages of lignocaine in the management of ventricular arrhythmias.
- 3. Enumerate typical and atypical antipsychotics. Explain therapeutic advantages of atypical antipsychotics.
- 4. Describe characteristics of high ceiling diuretics. Explain mechanism of action and therapeutic indications of these agents.
- 5. Explain nonselective and cardio selective β -blockers. Write on the apeutic indication and limitations of β -blockers.
- 6. Explain binding of drugs to blood components and extravascular tissue. Write on significance of protein and tissue binding of drugs.

Q.3 Short Answers. (2 Mark Each)

- 1. Physiological importance of endogenous opioid peptides.
- 2. Benefit and risk of selective COX-II inhibitors.
- 3. Pathophysiological role of prostaglandins.
- 4. Write therapeutic indications for 5HT receptor agonist with example.
- 5. Differences between opioid and non opioid analgesics.
- 6. Enlist non biologic and biologic disease modifying anti-rheumatoid drugs (DMARDs).
- 7. Importance of enterohepatic cycling.
- 8. Structural differences between brain capillary and peripheral capillary.
- 9. Explain rationale of combining angiotensin receptor antagonist with neprilysin inhibitor in the management of CCF.
- 10. Recommendations made in current new high blood pressure guidelines.

Date: 10/01/2018 Time: 10:00 am to 1:00 pm Total Marks: 75

(25)

(30)

(20)

Enrolment No. _