

**Ref. No.: Ex/PG/PHAR/T/127G/2018,**

**Dated: 17/04/2018**

**M. Pharm. 1<sup>st</sup> Year 2<sup>nd</sup> Semester Examinations 2018.**

**Time: 3 hours**

**Subject: Pharmacology-II**

**Full Marks: 100**

**GROUP - A**

(Answer any *five* questions)

1. Write in details about the different step of new drug development. Write in short about the role of IAEC on animal experiment.
2. Define and classify different types of anaemia. Briefly discuss about microcytic hypochromic anaemia.
3. Write notes on (*any two*)-
  - a. Fibrinolytic system.
  - b. Screening of antidiabetic agents.
  - c. Antiplatelet drugs.

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GROUP - B

Q4) With the help of a schematic diagram explain how  $\beta$ -adrenergic agonist induce positive - Inotropic and Dromotropic effect in cardiac tissue. Explain how  $\beta$ -Blockers work in the management of (a) Arrhythmia and (b) CHF.

7+5+8

Q5) Explain how Nitrates induce vasodilatation in (a) Coronary endothelium and (b) Reduce Systolic Aortic pressure. (c) Discuss about the clinical justification in favour of the combination of Hydralazine along with Nitrates. (d) Discuss about the similarities and dissimilarities between DHP and Non-DHP type of Calcium channel blockers.

6+4+4+6

Q6)

a) Explain the importance of management of Pre-load and After-load of heart in the treatment of Angina and Hypertension.

b) Explain critically why -

i)  $\beta$ -blocker is advised in nitrate mediated management of reduced coronary flow?

ii) CCB is preferred over  $\beta$ -blockers in predisposed COPD.

6+7+7