

**Ref. No.: EX/PG/PHAR/T/112C/2018**

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

**Time: 3 hours**

**Subject: Pharmacology-I**

**Full Marks: 100**

(Answer any *five* questions taking at least *one* from each group)

**GROUP - A**

1. On the basis of efficacy classify diuretics. With proper diagram discuss in details about High ceiling diuretics.
2. What do you mean by 'staging' and 'grading'. With a proper diagram discuss about cell cycle. What do you mean by chemotherapeutic cycle and indicate its importance. How cancer cell developed resistance against chemotherapeutic agents?

For

MASTER OF PHARMACY (1st year, 1<sup>st</sup> sem) EXAMINATION, 2018  
Ref. No. Ex/PG/PHAR/T/112C/2018  
Pharmacology - I

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Full Marks: 100

Answer all parts of a question and group in one place.  
Answer any five questions taking at least one from each group.

GROUP - B

3) (i) Clearly mention the purpose of the following components of Flow Cytometry:

- (a) Dichoric Mirror, (b) Forward Scattering and Side Scattering Detectors,
- (c) FACS.

(ii) Critically comment on ESC and IPS cell - in context of regenerative medicine.

(iii) Comment on Asymmetric and Symmetric cell division in context to Stem Cell study.

(3X3)+4

4) (i) Comment on the following keeping in view developmental Regenerative medicine:

- (a) Nuclear Reprogramming, (b) Application of stem cells in Cardiac Ischemia and Diabetes Mellitus, (c) Clinical approaches for management of Parkinsonism.

(ii) Explain the graphical interpretation of a standard RT-PCR result.

(iii) Explain in details how half-life for living cell is generally identified.

(4X3)+3+5

**M.PHARMACY 1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATION, 2018**  
 (1<sup>st</sup>/2<sup>nd</sup> Semester/Repeat/Supplementary/ Spl. Supplementary/old/Annual/Bi - Annual)

**SUBJECT : PHARMACOLOGY-I**

marks: 100

Full marks: 100

Time: Three hours

Use separate answer – script for each part

No of questions	GROUP - C	Marks
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5. Discuss the stages of development of a 'typical' new drug, i.e. a synthetic compound being developed for systemic use. What is bacterial mutation assays?

6. Write short notes:-

10+8=20

a) Pharmacological interventions against drug abuse.

4x5=20

b) LAAM

c) Understanding the dependence forming potential of drugs

d) Treatment of withdrawal syndromes.

+4

ia and

3+5

M.PHARMACY FIRST YEAR FIRST SEMESTER-2018

PHARMACOLOGY 1

TIME:

Full Marks:

GROUP - D

Use separate answer scripts for each group.

Q7 a) Define Adverse Drug Reactions(ADR).Classify ADRs.

b) What are the factors affecting the incidence of ADRs?

c) Explain Type-I and Type-II hypersensitivity reactions in the context of drug administration

3+2+10+5=20

Q8 a) Explain cells involved in Specific and Non -Specific immunity mentioning the characteristic function of each .

b)What is Causalty? How is causalty assessed?

c) How does the body differentiate between 'self' and 'non-self'? Explain

8+7+5=20