MASTER OF PHARMACY EXAMINATION, 2017 Ref. No. EX/PG/PHAR/T/112C/29/2017 Dt:25/10/2016

(1st year, 1st sem) Pharmacology - I

Time: Three Hours

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 - A

- 1) (i) Clearly mention the purpose of the following components of Flow Cytometry:
 - (a) Dichoric Mirror, (b) Forward Scattering and Side Scattering Detectors,
 - (c) Fluorescence detector, (d) Use of sheath fluid.
- (ii) With the help of a schematic diagram explain the working principle for FACS.
- (iii) Comment on Asymmetric and Symmetric cell division in context to Stem Cell study.

(4X3)+4+4

- 2) (i) Comment on the following keeping in view developmental Regenerative medicine:
 - (a) Importance of Oocyte, (b) Embryonic and Resident stem cells, (c) Issues related to incidence of Teratoma, (d) Clinical approaches for management of Parkinsonism.
- (ii) Explain the graphical interpretation of a standard RT-PCR result.
- (iii) Comment on the suitability of Base pair length and Nature of Reporter Dye in the design of Probe in RT-PCR.

 (4X3)+4+4

M.PHARM 1st YEAR 1stSEMESTER EXAMINATION, 2017 (1st/2nd Semester/Repeat/Supplementary/ Spl. Supplementary/old/Annual/Bi - Annual)

SUBJECT: PHARMACOLOGY-I

Full marks: 100			
Time: Three hour Use separate answ	s er – script for each	part	
No of questions	Part 1/4	GROUP - B	Marks
3 Describe in br Lymphoma Ass	ief the Preclinica ay?	l Support for Phase I Clinical Trials. What do y	ou mean by Mouse 12+8=20
4. Write short in a) NCC MERP 1 b) Classification	index for Categor	rizing Medication Errors	4X5=20
•	s of Addiction M	anagement	
d) Beginnings of	f Drug Abuse Ma	anagement	

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Dated: 25.10.2016

M. Pharm. 1st Semester Examinations 2017.

Time: 3 hours

Subject: Pharmacology-I

Full Marks: 100

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

GROUP - C

- 5. Describe the different process through which water is reabsorbed by Nephron. Define positive and negative free water clearance. With proper diagram discussed about carbonic anhydrase inhibitor and potassium sparing diuretics.
- **5.** Write in details about the different carcinogen that responsible for cancer. What are changes occurs during apoptosis. Write in details about the different pathway of apoptosis.

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Master of Pharmacy First Semester Exam. - 2017

Subject: (PHARMACOLOGY-I)

GROUP - D

- 7. Discuss the intracellular signalling involved in the Ras Raf pathway. Give some examples of drugs that may interfere with such signalling system.
 - Briefly discuss the role of ion channel receptor in the process of insulin release and cellular glucose uptake.
- g. Discuss the functioning of a nuclear receptor. How can you experimentally demonstrate upregulation / downregulation of a gene following administration of a PPAR agonist.
 12+8=20
- 9. Using suitable examples, discuss the functional classification of protein therapeutics. Mention some advantages and limitations of protein based therapeutic agents.

15+5=20

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