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Paper Id: 900276 Roll No.

M. PHARM

(SEM II) THEORY EXAMINATION 2018-19

SCREENING METHODS & BIOASSAYS

Time: 3 Hours *Total Marks: 100*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **2 x 10= 20**

a. Discuss the importance of IAEC for animal experimentation.
b. What do you mean by CTD triangle?
c. Highlight the advantages of cross breeding.
d. Comment on intra gastric route of drug administration for rodents.
e. Define Bio assay and enlist various types of bioassay.
f. Discuss the importance of bioassay.
g. Write the objective of ICH S7A guideline.
h. Write short notes on Morris water maze test.
i. Enlist various *in-vivo* screening methods for evaluation of antiemetic drugs.
j. Enlist various *in-vitro* methods for screening of anticancer drugs.

SECTION B

2. Attempt any *three* of the following: **10 x 3= 30**

a. Write a detailed note on ICH guidelines.
b. Describe various techniques of blood collection in experimental animals.
c. Explain the validation of new bioassay methods.
d. Discuss the purpose and rationale of different *in-vivo* models used for the screening of anxiolytic agents.
e. Explain the screening models for the pharmacological evaluation of Analgesics.

SECTION C

3. Attempt any *one* part of the following: **10 x 1= 10**

a. Discuss the role of USFDA guidelines for animal testing.
b. Explain the acute toxicity tests for a drug according to OECD guidelines.

4. Attempt any *one* part of the following: **10 x 1= 10**

a. Elaborate breeding methods for experimental animals.
b. Discuss the significance of genetically prone animal models in drug screening.

5. Attempt any *one* part of the following: **10 x 1= 10**

a. Write a note on statistical treatment of model problems in drug screening.
b. Elaborate principles of biological assays with suitable examples.

6. Attempt any *one* part of the following: **10 x 1= 10**

a. Explain different *in-vivo* models used for the screening of CNS Stimulants in brief.
b. Discuss the purpose and rationale of different *in-vivo* models used for the screening of Anti-Parkinson's agents.

7. Attempt any *one* part of the following: **10 x 1= 10**

a. Discuss various *in-vivo*screening methods of anti-ulcer drugs.
b. Describe various *in-vivo*screening methods of anti-diarrheal drugs.

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