

[LA 351]

MAY 2012

Sub. Code: 2912

M.PHARM. DEGREE EXAMINATION

FIRST YEAR

BRANCH IV – PHARMACOLOGY

PAPER III – BIOLOGICAL STANDARDISATION AND PHARMACOLOGICAL
SCREENING METHODS

Q.P. Code: 262912

Time: 3 hours
(180 Min)

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

Pages (Max.)	Time (Max.)	Marks (Max.)
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| 1. a. Describe the bioassay of d-tubocurarine.
b. Describe the invitro anticancer drug screening. | 17 | 40 | 20 |
| 2. a. Explain any two invivo screening methods for antihypertensives.
b. Explain any two invivo screening methods for anticonvulsants. | 17 | 40 | 20 |

II. Write notes on:

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| 1. Explain Phrenic nerve diaphragm of rat. | 4 | 10 | 6 |
| 2. Write short notes on principles of bioassay. | 4 | 10 | 6 |
| 3. Describe the Shay rat model. | 4 | 10 | 6 |
| 4. Acute toxicity studies as per OECD guidelines. | 4 | 10 | 6 |
| 5. What are the advantages and disadvantages of alternative experimental models? | 4 | 10 | 6 |
| 6. Describe different animal cell lines used in screening. | 4 | 10 | 6 |
| 7. Despair swim test. | 4 | 10 | 6 |
| 8. Euthanasia. | 4 | 10 | 6 |
| 9. Short notes on Wilcoxon test, Paired T test. | 4 | 10 | 6 |
| 10. Explain one chronic and one acute screening model for anti-inflammatory drugs. | 4 | 10 | 6 |
