

Total number of printed pages – 4

B. Pharm
PH. E7

Eighth Semester Examination – 2008

BIOASSAYS

Full Marks – 70

Time : 3 Hours

*Answer Question No. 1 which is compulsory
and any **five** from the rest.*

*The figures in the right-hand margin
indicate marks.*

1. Answer the following questions : 2×10
- (a) What is clinical trial ?
 - (b) Name the test organism used for microbiological assay of streptomycin.
 - (c) What are the advantages of Bioassay ?

- (d) Name the activity assayed in isolated mouse heart during the bioassay of acetylcholine.
- (e) What do you mean by dose response curve ?
- (f) Name two preparations used in bioassay of adrenaline.
- (g) What is the principle of bioassay ?
- (h) Name the activity assayed for bioassay of antibiotics.
- (i) What is the activity assayed in anaesthetised and atropinized cat for bioassay of histamine ?
- (j) What is the difference between potency and efficacy ?



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Contd.

2. Describe the different methods of microbiological assay. Write a short note on microbiological assay of vitamin B₁₂. 6+4

3. Write a note on bioassay of antagonists. Briefly discuss the bioassay of mepyramine. 5+5

4. Discuss any two methods of bioassay of Digitalis. 10

5. Briefly comment on : 5×2

(a) Biological variation and standardization

(b) Design of Bioassay.

6. Discuss any two methods of bioassay of Insulin. 10

7. Define bioassay. What are the types of bioassay ? Write a note on 3-point and 4-point bioassay. 1+3+3+3

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8. Write the preparation used and activity assayed in bioassay of : 2.5×4

(a) 5-hydroxy tryptamine

(b) Corticotrophin

(c) Progesterone

(d) Oxytocin.

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Contd.