

Total number of printed pages – 4

B. Pharm
PH. E.5

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 in brief :

2 × 10

- (a) Explain fiducial limits.
- (b) Why mean is a better parameter than mode and median as a measure of central tendency ?

- (c) Give an example for bioassay in humans.
- (d) In which bioassay twin cross over design is followed ?
- (e) Explain about LAL test for parentals.
- (f) Write an example for androgen bioassay.
- (g) Write the details of digitalis bioassay by guineapig method.
- (h) How do you carry out the bioassay of an antagonist ?
 - (i) Rabbit head drop method is an example for bioassay of what drug ?
 - (j) How is histamine biologically standardised by in vitro method ?

2. Define bioassay ? What are its advantages and disadvantages ? 10

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3. Describe the microbiological assay of Vitamin B₁₂. 10
4. Name the models used for the determination of the pressor activity of substances. How is adrenaline biologicals standardised? 10
5. Write the principles for the bioassay of : 10
- (a) Heparin
 - (b) Vitamin D
 - (c) Acetylcholine
 - (d) 5 HT.
6. Write short notes on the following : 10
- (a) Measures adopted to minimise biological variation in standardisation.
 - (b) Measures used to improve sensitivity of bioassays.
7. Write short notes on the bioassay of : 10
- (a) Oxytocin
 - (b) Gonadotrophins.
8. Write in detail about 'culture-sensitivity' test conducted for selection of proper antibiotic for the treatment of infection. 10
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