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Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- Explain the bioassay of the following:
 - (a) Chorionic gonadotropin.
 - (b) Vasopressor activity.
 - (c) Urokinase.
- 2. Explain the various techniques of microbiological assay of antibiotics with any one suitable example.
- 3. Give an account on the validation of HPLC analytical method as per ICH guidelines.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Write methodology of sterility testing.
- 5. Write the quality control tests for any two radiopharmaceuticals.
- 6. What is the principle of Differential Thermal analysis? How does it differ from Differential Scanning Calorimetry? Explain Differential Thermogram and application of Differential Thermal analysis specifically to formulation development.
- 7. Write the principle and the technique of microbiological assay of vitamins by turbidimetry by taking any one vitamin as example.
- Explain the production and chemical nature of pyrogen and LAL test. 8.
- 9. Explain the applications of mass spectrometry to the quantitative analysis.

www.FirstRan SHORT NOTES 2 X 5 = 10 Marks

- Endotoxin and exotoxin.
- 11. Refractive index.