

R07

Code No: R7601

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
IV Year B. Pharmacy I Semester Examinations, December 2011
PHARMACEUTICAL ANALYSIS-II**

Time: 3 hours

Max. Marks: 80

**Answer any five questions
All questions carry equal marks**

1. a) Write the principle behind the interaction of UV absorption with organic molecule and its Analytical applications.
b) Derive the Beers law and Lambert Law. [16]
2. Write a note on
a) Anisotropic shielding and deshielding
b) J-Value
c) Electron impact ionization. [16]
3. a) Instrumentation of DTA and its application to pharmaceuticals.
b) Production of X – rays. [16]
4. a) Octant Rule
b) Application of ORD in Monograph Analysis
c) Principle in Radio immuno Assay. [16]
5. Give Reason and justify the following
a) Sigmoid shape of linearity curve in RIA
b) Glass Transition enthalpy in DSC is Zero
c) AAS spectrum is a Line spectrum
d) Fronting in chromatographic separation. [16]
6. Write in detail about, various stationary phases used
a) Paper chromatography
b) Thin layer chromatography
c) Reverse Phase – column chromatography. [16]
7. Write about the various parameters in chromatogram of GC and add note on various derivatization technique in GC. [16]
8. Write note on:
a) Van Deemter Equation in column efficiency of HPLC
b) Application of HPTLC in Herbal drug analysis
c) Electro osmotic flow in electrophoresis. [16]

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