

Code No: B4101

**R10****SET - 1****IV B. Pharmacy I Semester Advanced Supplementary Examinations, February - 2020****PHARMACEUTICAL ANALYSIS-II**

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions  
All Questions carry **Equal** Marks  
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1. a) With a neat sketch explain the instrumentation of IR spectroscopy. (8M)  
b) Write in detail on Beer-Lambert law. (7M)
2. a) Write the principle and applications of NMR spectroscopy. (8M)  
b) Write in brief on electron impact and MALDI ionizers. (7M)
3. Write short notes on (15M)  
(a) DTA (b) AAS
4. a) Explain the principle and applications of XRD. (10M)  
b) With a neat sketch discuss the salient features and analysis of IR spectrum. (5M)
5. a) Explain the principle and instrumentation involved in ELISA. (10M)  
b) Write in detail on applications of ORD. (5M)
6. a) Enumerate stationary phases used for TLC. Add a note on methods used for preparation of a TLC plate. (10M)  
b) What is paper chromatography? Write its applications. (5M)
7. a) With a neat block diagram, explain the instrumentation of HPLC. (10M)  
b) Write in brief on mobile phases used in GC. (5M)
8. a) Write the principle and applications of isoelectric focusing method. (8M)  
b) Write a note on buffers and reagents used for electrophoresis. (7M)