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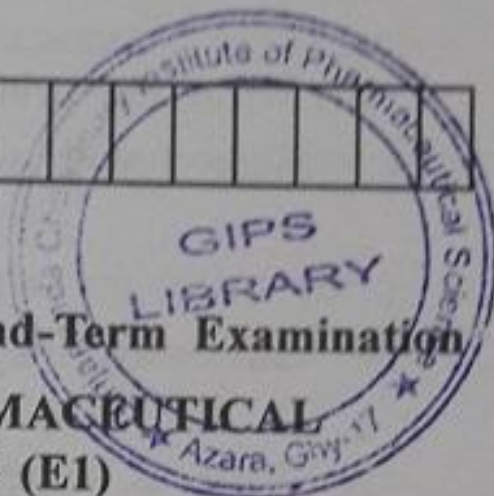
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PY 132709E1

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2016



B. Pharm 7th Semester End-Term Examination

ADVANCED PHARMACEUTICAL ANALYSIS (E1)

Full Marks – 100 Pass Marks – 35 Time – Three hours

The figures in the margin indicate full marks for the questions.

1. Answer any *ten* of the following questions :

3×10=30

- (i) Write down the objective and importance of GLP.
- (ii) Write briefly the principle of DTA and draw an ideal DTA curve.
- (iii) Explain the SOP on IPQC during packaging.
- (iv) Describe the principle of Gel electrophoresis.
- (v) Classify packaging material by citing example.

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(vi) List out the information obtained from DSC.

(vii) Write the principle, procedure of Kjeldahl method with suitable diagram.

(viii) Write the application of Size exclusion chromatography.

(ix) What is supercritical fluid ? Give some example of supercritical fluid.

(x) What are the different ion exchange resin ? Give examples.

(xi) What are the different factors affecting filtration ?

2. Answer any *eight* of the following questions :

5×8=40

(i) Write down the principle and instrumentation of super critical fluid chromatography.

(ii) Write down the principle and instrumentation of fast protein liquid chromatography.

(iii) Write a note on ion exchange chromatography.

- (iv) Describe about size exclusion column. What is absolute size exclusion chromatography ?
- (v) What is cross contamination ? Write about sampling plans.
- (vi) Explain the use of differential thermal analysis in quality control.
- (vii) Explain the principles of laboratory hygiene and safety elaborately.
- (viii) Write a note on current good manufacturing practice.
- (ix) Describe quality control according to WHO guidelines and write about sampling of material.

3. Answer any *three* questions from the following :

3×10=30

- (i) Describe elaborately about the IPQC problems in pharmaceutical industries.
- (ii) Write the principle and application of Diazotization titration.

- (iii) Explain the principle, instrumentation and application of differential scanning calorimetry.
- (iv) Write the instrumentation and application of Gel electrophoresis.