

FINAL YEAR B.PHARM. SEMESTER-VIII (2011 COURSE) :

WINTER - 2017

SUBJECT : PHARMACEUTICAL ANALYSIS – VI

Day : **Friday**
Date : **10/11/2017**

Time : **02.00 PM TO 05.00 PM**
Max. Marks : **80**

W-2017-3850

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section
- 2) Answers to both the sections should be written in the **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** Attempt **ANY FIVE** of the following: **[10]**
- a) Explain Anisotropy.
 - b) Explain decoupling.
 - c) Compare premixed burner and total consumption burner.
 - d) Write the role of chopper in AAS.
 - e) What is coupling constant?
 - f) Effect of electronegativity in chemical shift.
- Q.2** Explain the basic theory of NMR, spin-spin splitting chemical shift and integration. **[15]**
- Q.3** Write the principle, instrumentation and applications of flame photometry. **[15]**
- Q.4** Write a note on **ANY THREE** of the following: **[15]**
- a) Applications of AAS
 - b) Interferences in AAS
 - c) NMR interpretation
 - d) Compare AAS and FES techniques

SECTION – II

- Q.5** Attempt **ANY FIVE** of the following: **[10]**
- a) What do you mean by method sensitivity?
 - b) What do you understand from the term LC-MS?
 - c) Explain concept of tandem MS.
 - d) What is principle of TGA?
 - e) Enlist types of ions formed in MS.
 - f) Enlist any four Mass analysers.
- Q.6** Enlist analytical method validation parameters and describe in detail linearity, precision, accuracy and specificity. **[15]**
- Q.7** Describe in detail types of ELISA techniques, its principle and applications. **[15]**
- Q.8** Write a note on **ANY THREE** of the following: **[15]**
- a) Sector mass analyser
 - b) Instrumentation, applications and advantages of RIA techniques
 - c) MS ionization techniques
 - d) Parameters affecting TGA curve