

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Modern Pharmaceutical Analysis

Subject Code: 5PS02MPA2

Branch: M.Pharm (QA)

Semester: 2

Date: 06/05/2017

Time: 02:00 To 05:00

Marks: 70

Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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SECTION – I

- Q-1 Attempt the Following questions (07)**
- a. Write the use of Draize test. 1
 - b. What is Patch test? 1
 - c. Name the Parameter for evaluation of crude drug and herbal formulation. 1
 - d. What are the benefits of automation? 1
 - e. Write the classification of automatic analyzers. 1
 - f. Write the advantages of parenteral preparation. 1
 - g. Write various techniques for separation techniques of solid dosage forms. 1
- Q-2 Attempt all questions (14)**
- (a) Explain dissolution standards and general method for dissolution test of enteric coated oral dosage form. 7
 - (b) Write note on sterility testing. 7
- OR**
- Q-2 Attempt all questions (14)**
- (a) Write the Quality control methods for medicinal plant materials as per WHO. 7
 - (b) Discuss quality control of radiopharmaceuticals. 7
- Q-3 Attempt all questions (14)**
- (a) What is the concept of solubility? Outline any two methods for the determination of solubility of solid in liquid. 7
 - (b) Describe the role of near infrared analysis in solid dosage form. 7
- OR**
- Q-3 Attempt all questions**
- (a) Outline the IP method for validation of UV spectrophotometer. 7
 - (b) Write the usefulness of ion exchange chromatography. 7



SECTION – II

- Q-4** **Attempt the Following questions** **(07)**
- a. Why preformulation study is done? 1
 - b. What is the wavelength region for NIR spectroscopy? 1
 - c. What are the disadvantages of TLC? 1
 - d. Write the names of various thermal analytical methods. 1
 - e. What are the goals of preformulation study? 1
 - f. What are ICH responsibilities? 1
 - g. What are the responsibilities of FDA? 1
- Q-5** **Attempt all questions** **(14)**
- (a) Describe the US-FDA guidelines in pharmaceutical analysis. 7
 - (b) What is the effect of impurities on drug stability and its therapeutic action? 7
- OR**
- Q-5** **Attempt all questions** **(14)**
- (a) Write a note on isolation and identification of impurities. 7
 - (b) Elaborate on quality control of pharmaceuticals. 7
- Q-6** **Attempt all questions** **(14)**
- (a) Enlist different analytical tests for finished parenteral products. 7
 - (b) Discuss various stages of pre formulation studies. 7
- OR**
- Q-6** **Attempt all Questions** **(14)**
- (a) Define the term 'Cosmetic'. Discuss the methods of analysis 7
 - (b) What are the regulatory requirements of cosmetic formulations? 7

