



**SHREE H.N.SHUKLA INSTITUTE OF PHARMACEUTICAL  
EDUCATION AND RESEARCH, AMARGADH, BHICHARI**

---

**B.PHARM SEMESTER-I, INTERNAL EXAM-2019**

**Subject code: BP102TP**

**Date: 12/11/2019**

**Sub: PHARMACEUTICAL ANALYSIS -I**

**Total Marks: 20**

**Time: 1 hr.**

**Enroll. No:**

**ATTEMPT ANY FOUR**

- Q.1** Write a brief note on different techniques of analysis. (5)
- Q.2** Define error. Classify the error and give the methods for error minimization. (5)
- Q.3** Explain in detail theories of acid- base indicators. (5)
- Q.4** Give the comment on following: (i) Phenolphthalein gives colour in basic media (5)  
(ii) Acetic Anhydride is added with acetic acid using as a non-aqueous solvent.  
(iii) Water is differentiating solvent for HCl and CH<sub>3</sub>COOH.
- Q.5** What is buffer solution? Derive Henderson Hasselbach equation for finding pH of (5)  
buffer solution?
- Q.6** Classify the methods to detect end point in precipitation titration. Explain Mohr's (5)  
method in detail.



**SHREE H.N.SHUKLA INSTITUTE OF PHARMACEUTICAL  
EDUCATION AND RESEARCH, AMARGADH, BHICHARI**

---

**B.PHARM SEMESTER-I, INTERNAL EXAM-2019**

**Subject code: BP102TP**

**Date: 12/11/2019**

**Sub: PHARMACEUTICAL ANALYSIS -I**

**Total Marks: 20**

**Time: 1 hr.**

**Enroll. No:**

**ATTEMPT ANY FOUR**

- Q.1** Write a brief note on different techniques of analysis. (5)
- Q.2** Define error. Classify the error and give the methods for error minimization. (5)
- Q.3** Explain in detail theories of acid- base indicators. (5)
- Q.4** Give the comment on following: (i) Phenolphthalein gives colour in basic media (5)  
(ii) Acetic Anhydride is added with acetic acid using as a non-aqueous solvent.  
(iii) Water is differentiating solvent for HCl and CH<sub>3</sub>COOH.
- Q.5** What is buffer solution? Derive Henderson Hasselbach equation for finding pH of (5)  
buffer solution?
- Q.6** Classify the methods to detect end point in precipitation titration. Explain Mohr's (5)  
method in detail.