

---

# NON-CERTIFIABLE COMPETENCIES/ DEMONSTRATIONS

---



## NON-CERTIFIABLE COMPETENCIES/DEMONSTRATIONS AS PER NMC

S.No.	Date	Competency number	Competency description	Signature of Faculty
1.		BI11.1	Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal.	
2.		BI11.2	Describe the preparation of buffers and estimation of pH.	
3.		BI11.3	Describe the chemical components of normal urine	
4.		BI11.5	Describe screening of urine for inborn errors and describe the use of paper chromatography	
5.		BI11.6, BI11.18	Describe the principles of colorimetry and spectrophotometry	
6.		BI11.9	Demonstrate the estimation of serum total cholesterol and HDL-cholesterol	
7.		BI11.10	Demonstrate the estimation of triglycerides	
8.		BI11.11	Demonstrate the estimation of calcium and phosphorous	
9.		BI11.12	Demonstrate the estimation of serum bilirubin	
10.		BI11.13	Demonstrate the estimation of SGOT /SGPT	
11.		BI11.14	Demonstrate the estimation of alkaline phosphatase	
12.		BI11.15	Describe and discuss the composition of CSF	
13.		BI11.16, BI11.19	Outline the principle, functioning and applications of paper chromatography and thin layer chromatography (TLC) of amino acid in biochemistry laboratory	
14.		BI11.16, BI11.19	Outline the principle, functioning and applications of protein electrophoresis, PAGE and immunodiffusion in biochemistry laboratory	

## NON-CERTIFIABLE COMPETENCIES/DEMONSTRATIONS AS PER NMC

S.No.	Date	Competency number	Competency description	Signature of Faculty
15.		BI11.16, BI11.19	Outline the principle, functioning and applications of pH meter in biochemistry laboratory	
16.		BI11.16, BI11.19	Outline the principle, functioning and applications of electrolyte analysis by ISE in biochemistry laboratory	
17.		BI11.16, BI11.19	Outline the principle, functioning and applications of ABG analyzer in biochemistry laboratory	
18.		BI11.16, BI11.19	Outline the principle, functioning and applications of ELISA in biochemistry laboratory	
19.		BI11.16, BI11.19	Outline the principle, functioning and applications of autoanalyser in biochemistry laboratory	
20.		BI11.16, BI11.19	Outline the principle and applications of Quality control in biochemistry laboratory	
21.		BI11.1 6, BI11.19	Outline the principle and applications of DNA isolation from blood/tissue in biochemistry laboratory	
22.		BI11.17	Demonstrate the estimation of serum uric acid	
23.				
24.				
25.				

## REFLECTIONS BY STUDENT ON NON-CERTIFIABLE COMPETENCY

Date: \_\_\_\_\_

1. Describe what happened during the session.

---

---

---

---

---

---

2. What did you learn in this session?

---

---

---

---

---

---

3. How this session will be useful for you?

---

---

---

---

---

---

Signature of Faculty

**REFLECTIONS BY STUDENT ON NON-CERTIFIABLE COMPETENCY**

Date: \_\_\_\_\_

1. Describe what happened during the session.

---

---

---

---

---

---

2. What did you learn in this session?

---

---

---

---

---

---

3. How this session will be useful for you?

---

---

---

---

---

---

**Signature of Faculty**