


**RAN-2503000502067007**

**B. Sc. (NCF-NEP) (Sem. - II) Examination October - 2025**  
**Phlebotomy (Paper - MLT-SEC-202)**

**Time: 0:30 Minutes ]**
**[ Total Marks: 13**
**સૂચના : / Instructions**

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
 Fill up strictly the above details on your answer book.

Seat No.:

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Student's Signature

**Q. 1. Answer in Short: Any 13 Out of 15.**

1. Enlist any two responsibilities of a Phlebotomist.
2. What are the three components of the vacutainer system?
3. Define: Anticoagulants
4. What is the use of tourniquet?
5. What instructions should be given to a patient before a fasting blood draw?
6. Name one anticoagulant used in Hematology.
7. Name the three veins used for venipuncture.
8. When is a whole blood specimen required?
9. What is the difference between serum and plasma specimens?
10. What is the effect of improper use or failure to mix blood with an anticoagulant in a tube?
11. Why sodium fluoride is used as an anticoagulant in glucose testing?
12. How does a phlebotomist ensure patient comfort and safety during venipuncture?
13. Give the full form of EDTA.
14. What is the angle at which the vein is penetrated during venipuncture?
15. Enlist any two instructions given to the patient before blood collection.