Assignment 4

Due on 2023-05-30, 23:59 IST.

As per our records you have not submitted this assignment.

1. An electromagnetic lens, the magnets hold steady force on a moving electron in a direction ______. 1 point

   - Perpendicular to the direction of motion
   - Perpendicular to the direction of propagation of electron
   - Parallel to the direction of propagation of electron
   - Perpendicular to both direction of field and direction of propagation of electron
   - None of the above

   Accepted answers: Perpendicular to the direction of field and direction of propagation of electron

2. Effective focal length of condenser lens is independent of ______. 1 point

   - Number of lens in a combination of condenser
   - Accelerating potential of electron beam
   - Distance of condenser from electron beam
   - None of the above

   Accepted answers: None of the above

3. The portion of electron corral that leaves the gun through the hole in the anode is called ______. 1 point

   - Beam current
   - Extracted current
   - Proton current
   - None of the above

   Accepted answers: Extracted current

4. Space charge offset is minimum, where ______ is used. 1 point

   - High voltage and beam current
   - Dead current and beam current
   - Low voltage and high beam current
   - None of the above

   Accepted answers: None of the above

5. The following substances represents ______. 1 point

   - Crystalline structure and grain orientation of the specimen are obtained from ______. 1 point

   - SE
   - BSE

   Accepted answers: SE

6. Electron Probe Micro分析 (EPMA) is used for ______. 1 point

   - Elemental analysis
   - Texture analysis
   - Crystallographic studies
   - None of the above

   Accepted answers: Elemental analysis

7. BSE collects ______ signals. 1 point

   - Electron
   - Secondary
   - Backscattered
   - None of the above

   Accepted answers: Backscattered

8. Image in working distance leads to ______ spot size and ______ image resolution. 1 point

   - Smaller and degraded
   - Smaller and improved
   - Larger and degraded
   - Larger and improved

   Accepted answers: Smaller and improved