

Roll No. ....

**Y – 3125**

**M.Sc. (Physics) Fourth Semester EXAMINATION,**

**May/June-2021**

Paper – 404-(A)

**INTEGRATED ELECTRONICS**

*Time : Three Hours*

*Maximum Marks : 85*

*Minimum Pass Marks : 29*

**Note**—Attempt *all* questions.

**Unit-I**

1. Explain with suitable diagram Czochralski method and identify all the major parts. 17

**Unit-II**

2. What is photo-masking ? Explain their types with suitable diagram. 17

**Unit-III**

3. What are the chemical reactions taking place during deposition of silicon dioxide ? 17

**Unit-IV**

4. Explain with suitable flow diagram about ION implementation in IC fabrication 17

**Unit-V**

5. Draw and explain physical structure of on nMOS enhancement transistor. 17

**Y – 3125**