

**W-3255**

**M.Sc. (Fourth Semester) Examination, June-2020**

**PHYSICS**

**Paper - 404-(A)**

**Integrated Electronics**

*Time : Three Hours*

*Maximum Marks : 85*

*Minimum Pass Marks : 29*

**Note :** Attempt **All** Questions. All questions carry equal marks.

- Q.1. a) Discuss in detail the Czochralski method of crystal growth with neat diagram.  
b) Write a note on plasma oxidation.
- Q.2. a) Discuss in detail the process of optical lithography.  
b) Write a note on wet chemical etching.
- Q.3. a) Explain in detail with neat diagram the physical vapour deposition technique.  
b) Write a brief note on thick film circuits.
- Q.4. Explain error function. Discuss in detail the Gaussian profile method.
- Q.5. a) Explain in detail the fabrication of monolithic diodes in various configuration.  
b) Write the monolithic circuit layout design rules.

