Electronics & Communication

| B.Tech. | Semester-V |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Integrated Circuit(TEC-352) | Class Test-II |
| Total Time: 1Hour M.M: 15 | |
| Note: Answer all the Question. | |
| 1. Explain the operation of a 555 timer as a one - sho for ton time of the output waveform. | ot multivibrator .Also derive the expression |
| | OR |
| Draw the circuit diagram of tringular wave generato Expression for For frequency. | r and explain its operation . Also derive the |
| 2. Draw a regenerative comparator and explain its o hysteresis? | peration. What factors determine the |
| | OR |
| A schmitt tigger with the upper threshold level Vut = converts a 1khz sine wave of amplitute 4Vp-p into of the positive and the negative portion of the output | a square wave . calculate the time duration |
| 3 . Describe CZ process in details with neat diagram | |
| | OR |
| Derive the Diffusion equation. | |
| ***** ***** END OF PAPER******** | * |
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