



DIPLOMA IN ELECTRONICS AND COMMUNICATION ENGINEERING

CENTRALIZED QUESTION BANK

**4040651 – TELEVISION ENGINEERING
PRACTICAL**

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2023

Course : Electronics and Communication Engineering

Subject : Television Engineering Practical

QP Code : 4040651

Time : 3 Hours **Date** :

Session:

Max Marks: 100

Answer the Following Question

1. Assemble the Yagi-Uda antenna with the given antenna elements.
2. Construct and test the sync separator circuit and plot its waveforms.
3. Build a vertical saw tooth generator and measure its frequency.
4. Construct a horizontal saw tooth generator and measure its frequency.
5. Find the fault and troubleshoot the given TV remote control unit.
6. Service the given SMPS and measure the voltage levels.
7. Troubleshoot the EHT section of TV receiver and measure the values.
8. Troubleshoot the sound section in TV receiver and measure the values.
9. Troubleshoot the deflection yoke of TV receiver and plot its waveforms.
10. Diagnose the given computer monitor and observe the VGA signals using CRO.
11. Find the faults and troubleshoot the given LED or LCD monitor.
12. Measure the DC voltages at various points in TV receiver.
13. Study the given RF tuner and explain the function of sections of RF tuner.

DETAILED ALLOCATION OF MARKS

Algorithm or Flow chart	:	20
Program	:	30
Execution	:	30
Output/Result	:	10
Viva-Voce	:	10
Total	:	100