



**DIPLOMA IN ELECTRONICS AND
COMMUNICATION ENGINEERING**

CENTRALIZED QUESTION BANK

**4040652 – MOBILE AND OPTICAL COMMUNICATION
PRACTICAL**

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2023

Course : Electronics and Communication Engineering

Subject : Mobile and Optical Communication Practical

QP Code : 4040652

Time : 3 Hours **Date** :

Session:

Max Marks: 100

Answer the Following Question

1. Identify the different parts and circuits of a mobile phone.
2. Test the mobile networks and observe the transmitted and received signal levels.
3. Analyze the Wi-Fi network and test the signal levels.
4. Find the faults with the earpiece speakers and microphone and trouble shoot them.
5. Find the faults with the vibrator and speakers in the mobile unit and troubleshoot them.
6. Diagnose the various mobile phone sensors.
7. Analyze the power management unit of a mobile phone.
8. Diagnose the display problems in a mobile phone.
9. Build the Pseudo random binary sequence generator and check its performance.
10. Construct the driver circuit of an optical source (LED or laser diode) and tests its performance.
11. Build an Opto – coupler and plot its VI characteristics.
12. Determine the numerical aperture of the given optical fiber.

DETAILED ALLOCATION OF MARKS

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