

IMSc (CSF) (NEP) Sem.-3 Examination
SEC-ICSF-236

Assembling and Configuration of Mobile Hardware
November-2025

Time : 1-00 Hour]

[Max. Marks : 25

Question 1: Answer the following questions:

- i. Explain the main hardware components of a mobile device. Describe the role of each component such as CPU, RAM, storage, display, and battery in device performance. 5 Marks
- ii. Describe the step-by-step process for disassembling and reassembling a smartphone. 5 Marks
How can one safely handle delicate connectors and screws to avoid hardware failure?

OR

- i. Compare the different types of mobile batteries used in smartphones. Explain their replacement process and the importance of testing functionality after installation. 5 Marks
- ii. Discuss the challenges that may arise during the assembly of a mobile device. 5 Marks
Suggest effective troubleshooting techniques for addressing common issues encountered during the process.

Question 2: Answer the following questions:

- i. Explain the role of a mobile operating system. Compare Android and iOS in terms of installation, configuration, and user customization features. 5 Marks
- ii. Discuss the importance of hardware configuration and calibration in mobile devices. 5 Marks
How do settings like display brightness, sound, and connectivity affect performance and battery life?

OR

- i. Identify and explain common mobile hardware issues and their typical symptoms. 5 Marks
What diagnostic tools and techniques are used to identify and repair faulty components?
- ii. Based on practical experiences, describe the steps involved in configuring and troubleshooting mobile devices. Provide examples of real-world scenarios and suggest effective solutions for resolving common technical issues. 5 Marks

Question 3: Attempt any Five out of Six.

5 Marks

1. Which component is considered the "brain" of a mobile device?

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2. Which tool or software is commonly used to diagnose mobile hardware faults?
3. Which tool is most used to handle small screws during mobile hardware assembly?
4. What is the key difference between Li-ion and Li-polymer batteries?
5. What is firmware in the context of mobile devices?
6. How can users optimize the performance of a mobile device's display?
 - A. By reducing display brightness and setting adaptive brightness.
 - B. By installing third-party display management software.
 - C. By disabling the touchscreen functionality.
 - D. By increasing the resolution beyond hardware limits.

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