

24U494

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Name:

Reg.No:

FOURTH SEMESTER B.Voc. DEGREE EXAMINATION, APRIL 2026

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC21USDC4LS12 - EMBEDDED LINUX OS AND ANDROID PROGRAMMING

(Information Technology - Skill Component Course)

(2021 Admission onwards)

Time : 2.5 Hours

Maximum : 80 Marks

Credit : 4

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. What is embedded linux?
2. What is MBR?
3. What is Root file system?
4. Briefly explain flat memory model.
5. What is Yocto?
6. Define cross native tool chain.
7. Examine the concept of Intent.
8. Analyze Resources in Android.
9. Analyze the use of cursor.
10. Construct the idea of toggle button.
11. What control would you use to display a list of items that users can scroll through horizontally?
12. Produce the concept of Grid layout.
13. Analyze the term fragments in android?
14. Analyze, the concept of Action Bar and List the different types of Action Bar.
15. Make a note on List preference?

(Ceiling: 25 Marks)

Part B (Paragraph questions)

Answer *all* questions. Each question carries 5 marks.

16. How MTD performs wear leveling?

17. What are the two modes of working in Linux os?
18. Explain sys file system and its main directories.
19. Construct an idea about how to implement Button control in Android?
20. Explain about Android software stack.
21. Inspect option menu in Android .
22. What are some potential challenges associated with implementing drag and drop functionalities in Android, and how can you address them?
23. Explain the structure of an android program.

(Ceiling: 35 Marks)

Part C (Essay questions)

Answer any *two* questions. Each question carries 10 marks.

24. Explain thread synchronization.
25. Explain Android Core Building Blocks.
26. Explain the different components of an Android application.
27. Explain the different key components in android architecture.

(2 × 10 = 20 Marks)
