

23U470

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Name :

Reg. No :

FOURTH SEMESTER B.Voc. DEGREE EXAMINATION, APRIL 2025

(CBCSS-UG)

(Regular/Supplementary/Improvement)

CC21U SDC4 LS12 - 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. Define an electronic system.
2. What is Linux?
3. What is a bad block?
4. What is Shell?
5. Define cross native tool chain.
6. What is the proc file system?
7. Describe AVD. Review the use of it.
8. Analyze the term Bundle.
9. Analyze the use of strings.xml.
10. Make note on Mapview control.
11. Formulate the difference of Views and ViewGroup in android.
12. Briefly compare and contrast the functionalities of constraint layout manager and relative layout manager.
13. Analyze the term fragments in android?
14. How can you visually indicate the validity of drop targets (i.e., highlight allowed drop zones)?
15. Make a note on various SQLite data types.

(Ceiling: 25 Marks)

Part B (Paragraph questions)

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

16. Explain Linux file system features.

17. What are all the memory models supported by Linux?
18. Explain Buildroot with its advantages and disadvantages.
19. Compose Short note on Button controls.
20. Analyze the concept of content providers in Android.
21. Formulate the concept of Image view and spinner control in detail.
22. Describe three common use cases for using Intent.
23. Explain an Android manifest file with an example.

(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 Activity life cycle with neat diagram.
27. Analyze the working of option menu with example.

(2 × 10 = 20 Marks)
