FOURTH SEMESTER B.Voc. DEGREE EXAMINATION, APRIL 2024

(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. What is GRUB?

2. What is Bootloader?

3. List all the devices supported by MTD subsystem?

4. Breifly explain flat memory model.

5. Define posix thread library.

6. List any five signals.

7. Describe DVM.

8. What is the use of R class in Android?

9. Analyze the use of cursor.

10. Design a checkbox button having two options.

11. Analyse what is a back stack used for?

12. Explain how advanced layout managers like ConstraintLayout can help improve the responsiveness and maintainability of complex UI layouts in your Android app.

13. Analyse the role of a menu inflater class.

14. What are some best practices for implementing drag and drop functionalities in Android apps?

15. Make a short note on SQLIte database classes in Android.

(Ceiling: 25 Marks)

Part B (Paragraph questions)

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

16. What is SBMCS? Describe with the help of block diagram?

17. What are the two modes of working in Linux os?

18. Compare embedded Linux and RTOS based on size, scheduler,CPU resource and their iot implementation

19. Explain the fundamental components of Android.

20. Analyze different Resources used in Android (Any Five).

21. Make a short note on spinner control.

22. Describe Dalvik Machine.

23. Explain the three main components of the Android APK.

(Ceiling: 35 Marks)

Part C (Essay questions)

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

24. Explain tool chains.

25. Explain the different components of an Android application.

26. Discuss the Application life cycle with neat diagram.

27. Analyze fragments in Android and its life cycle.

(2 × 10 = 20 Marks)

****