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Name:

Reg. No:

FOURTH SEMESTER B.Voc. DEGREE EXAMINATION, APRIL 2023

(B.Voc. – Information Technology)

**CC18U SDC4 DS15 – DATASCIENCE WITH R AND PYTHON PROGRAMMING,
EMBEDDED LINUX OS AND ANDROID PROGRAMMING**

(2018 to 2020 Admissions – Supplementary/Improvement)

Time: 3 Hours

Maximum: 80 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

1. The _____ function creates a regular sequence of values to form a vector.
2. _____ function is used to watch for all available packages in library.
3. Matrices can be created by row-binding with the help of the _____ function.
4. _____ file type of Linux hold lists of files rather than the actual data.
5. _____ command is used to viewing the files instead of opening the file.
6. Sort command is used to _____ the contents of files.
7. MTD stands for _____
8. The _____ file specifies the layout of your screen.
9. How many broadcast receivers are available in android?
10. apk extension stands for _____

(10 × 1 = 10 Marks)

PART B

Answer any *eight* questions. Each question carries 2 marks.

11. How to access the last five entries of a data frame?
12. Define array slicing.
13. What is difference between lapply and sapply?
14. What are data frames in R?
15. What is kernel source repositories?
16. Explain the roll of a boot loader.
17. Define Round Robin Scheduling
18. What is sys command in Linux?
19. What is ADB in android?
20. What is the onStop () method invoked?
21. Define Explicit Intent.
22. What are the different storages available in android?

(8 × 2 = 16 Marks)

PART C

Answer any *six* questions. Each question carries 4 marks.

23. Explain update using SQLite with an example.
24. Explain the types of menus that are available in the android SDK.
25. Describe three common use cases for using Intent.
26. Explain an Android manifest file with an example.
27. What are the three types of memory model in the Linux kernel?
28. Write a short note on System initialization.
29. Explain about the hierarchical indexing.
30. Write any six standard datatypes in Numpy.
31. Explain the grammars of the dplyr package in R.

(6 × 4 = 24 Marks)

PART D

Answer any *two* questions. Each question carries 15 marks.

32. What are the different computations performed on NumPy arrays?
33. Briefly explain the Android framework.
34. What are the tools for building Embedded Linux application?
35. What are the basic components of Linux? Draw the architecture of Linux system.

(2 × 15 = 30 Marks)
