

**2023/TDC(CBCS)/ODD/SEM/
CACSEC-301T/020**

TDC (CBCS) Odd Semester Exam., 2023

COMPUTER APPLICATIONS

(3rd Semester)

Course No. : CACSEC-301T

(Open-Source Software)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer *fifteen* questions, taking any *three* from
each Unit : 1×15=15

UNIT—I

1. Why do we need open-source software?
2. What is free software?
3. What are the advantages of open-source software?
4. Write the disadvantages of free software.

(2)

UNIT—II

5. What is process?
6. Write the Linux command to create a process.
7. What is the purpose of 'echo' command?
8. Write the use of 'ls' command.

UNIT—III

9. Define android.
10. What is SRC folder?
11. What is the current version of android?
12. What is Dalvik virtual machine?

UNIT—IV

13. What is variable in PHP?
14. Define constant.
15. Mention the data types used in PHP.
16. What is Web browser?

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(Continued)

(3)

UNIT—V

17. Define open-source cloud.
18. What is grid computing?
19. What is DVM?
20. What is common management model (CMM)?

SECTION—B

Answer *five* questions, taking *one* from each Unit :

2×5=10

UNIT—I

21. Differentiate between open-source software and free software.
22. Give some popular examples of open-source software.

UNIT—II

23. What is Kernel mode in Linux?
24. What are the types of signals available in Linux?

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(Turn Over)

(4)

UNIT—III

25. Write the procedure to display date and time on the image in android app.
26. What are the functions of values subfolder and layout subfolder?

UNIT—IV

27. Write the syntax of while loop in PHP.
28. Write the PHP script to add two numbers.

UNIT—V

29. Explain OGSA.
30. What is service domain? What is Common Distributed Logging (CDL)?

SECTION—C

Answer five questions, taking one from each Unit :

5×5=25

UNIT—I

31. Write the applications of open-source software.
32. Describe the security and reliability of open-source software.

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(Continued)

(5)

UNIT—II

33. How to setup environment in system for Linux installation?
34. Explain the different types of process in Linux.

UNIT—III

35. Define emulator. Write the steps for creating android virtual device.
36. Explain the application framework in android.

UNIT—IV

37. What is operator? Explain the different types of operators in PHP.
38. Write a PHP script for printing Fibonacci series and the output to be displayed on browser.

UNIT—V

39. Explain the features and purpose of Eucalyptus.
40. Explain the services provided by OGSA.

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