2021/TDC/CBCS/ODD/BCASEC–301T/020

TDC (CBCS) Odd Semester Exam., 2021
held in March, 2022

COMPUTER APPLICATION

(3rd Semester)

Course No. : BCASEC–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/Fill in the blanks any *fifteen* of the following : 1×15=15

1. The users must agree to the _____ terms and agreements when they use an open-source software.

2. Name two most popular open-source softwares.

3. What is the need of OSS?

(*Turn Over*)

(2)

4. What was the first open-source software?

5. Write the uses of 'cat' command.

6. What is system call?

7. _____ is the core part of the Linux.

8. Write one disadvantage of OSS.

9. What is DVM?

10. Android is a/an _____ (system/application) software.

11. Are Android emulators considered pirating?

12. Who is the owner of Android?

13. PHP stands for _____.

14. How do you declare variable in PHP?

15. What is scripting language?

16. Is PHP executed on server side or client side?

17. What is grid computing?

18. Write one functional requirement of OGSA.

19. Name one FOSS cloud software.

20. What is Eucalyptus?

(Continued)

(3)

SECTION—B

Answer any *five* of the following questions : 2×5=10

21. State the differences between open-source software and free software.

22. Write down the applications of open-source software.

23. Write down the components of Linux.

24. Discuss the benefits of using Linux as an OS.

25. Write down the different features of Android operating system.

26. Write down the steps to create Android virtual device.

27. Write a PHP code to demonstrate the use of Boolean variable.

28. Mention four operators and their uses in PHP.

29. What are the benefits of OpenNebula?

30. Mention two OGCA services utilization.

(Turn Over)

SECTION—C

Answer any *five* of the following questions :   5×5=25

31. Explain the reliability and security features of OSS.

32. Write a brief note on history of open-source software and its communities.

33. What is process? What are the different types of process in Linux?

34. Write the uses of the following commands :

ls ; cd ; mkdir ; mv ; man ; cp ; ps ; pwd ; chmod ; grep.

35. How is the Android file system organized? Explain.

36. Explain the Android architecture.

37. Write down the different steps to create and run a PHP script.

38. Discuss the different types of loops used in PHP.

39. Draw and explain the Open Grid Services Architecture.

40. Explain the components of Eucalyptus in cloud computing.

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