**2019/TDC/ODD/SEM/
BCASEC–301T/151**

TDC (CBCS) Odd Semester Exam., 2019

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*

UNIT—I

1. Answer the following as directed (any *three*) :

1×3=3

(a) Linux is an open source software.

(Write True or False)

(b) Open source software can be used for commercial purpose.

(Write True or False)

(Turn Over)

(c) The users must agree to the _____ terms and agreements when they use an open source software.

(Fill in the blank)

(d) OSI stands for _____.

(Fill in the blank)

2. Answer any *one* question : 2

(a) Write down the advantages of OSS.

(b) What is the difference between open source software and proprietary software?

3. What is open source software? Discuss the need for open source software. 2+3=5

OR

4. Explain different applications of free open source software in the fields of science. 5

UNIT—II

5. Fill in the blanks (any *three*) : 1×3=3

(a) _____ command is used to set terminal I/O characteristics.

(b) _____ command is used to record a user login session in a file.

(c) _____ command is used to print a file.

(d) _____ command is used to see/list all the running processes.

6. Answer any *one* question : 2

(a) What is process? Mention different types of process.

(b) How does signal handler work in Linux?

7. Explain step-by-step procedure to install Linux on PC. 5

OR

8. Explain different parts of Linux operating system. 5

UNIT—III

9. Answer/Fill in the blanks of the following (any *three*) : 1×3=3

(a) What is an activity in Android?

(b) Android is developed by _____.

(c) Android is based on _____ kernel.

(d) Android Web Browser is based on _____.

10. Answer any *one* question : 2

   (a) What is Delvik virtual machine?

   (b) Write down the feature of Android architecture.

11. Explain Android platform. 5

OR

12. Explain Android file system hierarchy. 5

UNIT—IV

13. Answer the following as directed (any *three*) : 1×3=3

   (a) What does PHP stand for?

   (b) What is the correct syntax to write a PHP code to print a variable?

   (c) Notepad++ is a PHP code editor.

                (Write True or False)

   (d) ____ must be installed on your computer so as to run PHP script.

                (Fill in the blank)

14. Answer any *one* question : 2

   (a) What is Web server? Give example.

   (b) What are identifiers in PHP?

15. *(a)* What are data types in PHP? 2

   (b) Explain with example conditional statements in PHP. 3

OR

16. Write down the steps to execute PHP script citing suitable example. 5

UNIT—V

17. Answer any *three* questions : 1×3=3

   (a) What is grid computing?

   (b) Define OGSI.

   (c) What is Eucalyptus?

   (d) What is open Nebula?

18. Answer any *one* question : 2

   (a) Write down the characteristics of open source cloud.

   (b) Mention the goal of Eucalyptus.

19. Explain Open Grid Service Architecture (OGSA). 5

OR

20. Explain design principles of open Nebula model. 5

★ ★ ★