22/TDC/ODD/SEM/BCASEC-301T/020

TDC (CBCS) Odd Semester Exam., 2022

COMPUTER APPLICATION tarlyid '

(3rd Semester)

(b) Write down the purposes of the Course No.: BCASEC-301T

> (Open Source Software) Marie Lat

Full Marks: 50 Pass Marks: 20

Time: 3 hours

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The figures in the margin indicate full marks for the questions

UNIT—I for What we suffer the War with

- 1. Answer any three of the following: $1\times3=3$
 - What is open-source software?
 - (b) What are the disadvantages of opensource software? wini pebalai renii zi ezistera dor 72 1 (b)
 - (c) What do you mean by licencing of OSS?
 - Mention two applications of OSS.

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(Turn Over)

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- 2. Answer any one of the following questions:
 - (a) What are different open-source softwares that are utilised for higher order calculations of mathematics?
 - (b) Write down the purposes of the following OSS:
 - (i) R software
 - (ii) Simfy
- 3. Answer any one of the following questions:
 - (a) Explain the origin of free open-source software.
 - (b) Elucidate the meaning and extraction of the terms free software and open-source software.

UNIT-II

4. Answer any three of the following questions:

1×3=3

- (a) What is Linux kernel?
- (b) What is vi editor?
- (c) Which process is first loaded into memory when the Linux system is booted?
- (d) Write down the purpose of fork().

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(3)

- 5. Answer any one of the following questions: 2
 - (a) Write short note on modes of operation.
 - (b) Write down the functions of Linux operating system.
- 6. Answer any one of the following questions: 5
 - (a) Explain different states of a process in Linux operating system.
 - (b) What is a signal? Explain various signals available in Linux. 1+4=5

UNIT-III

- 7. Answer any three of the following questions: $1\times3=3$
 - (a) What is AOSP?
 - (b) What are Android libraries?
 - (c) What is the current version of Android?
 - (d) What is ADT plugin?
- 8. Answer any one of the following questions: 2
 - (a) Write down the characteristics of DVM.
 - (b) How to execute the Android app on the emulator?

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9. Answer any one of the following questions: (a) Explain file system hierarchy of Android uniqual to seed of W. W. (b) Describe how to build Android application package (apk) file. A sample to the following questions. UNIT-IV to of a process of . 10. Answer any three of the following questions: What is XAMPP? (a) Write down the basic syntax for PHP. What is identifier in PHP? (d) How are constants used in PHP? 11. Answer any one of the following questions: (a) How to embed PHP code in HTML? Give example. (b) Explain different types of variables with example. 12. Answer any one of the following questions: (a) Write a PHP script for printing factorial and output to be displayed on browser. Define data type. Explain different data types used in PHP.

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UNIT—V

13. Answer any three of the following questions:

1×3=3

(a) Define OGSA.

(b) Mention two services of OGSA.

(c) What is GT4 architecture?

(d) What is WSRF?

14. Answer any one of the following questions:

(a) Write down the characteristics of cloud.

(b) Write down the purpose of storage controller in Eucalyptus components.

15. Answer any one of the following questions:

(a) Explain security issues in grid computing.

(b) Explain key features of OpenNebula.

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