



Lambert

Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – November 2024
V Semester

Class : III UG
Major : Computer Applications

Time: 3 Hours
Max. Marks: 100

21BCAC21 Open Source Technologies

Course Outcomes:

- CO1. Apply the principles of Open source software.
- CO2. Design real time applications using Open source.
- CO3. Develop skill sets in Open source tools.
- CO4. Able to apply the concepts of Open source in solving problems.
- CO5. Ability to build and modify free and open source software packages.

Part A
Choose the Correct Answer

10 x 1 = 10

- 1) A software that can be freely accessed and modified. CO1 K1
 - a. Synchronous Software
 - b. Package Software
 - c. OSS
 - d. Middleware
- 2) Which of the following is not an open source software? CO1 K2
 - a. Libre Office
 - b. Microsoft Office
 - c. GNU image manipulation
 - d. MySQL
- 3) The users must agree to the _____ terms and agreements when they use an open source software. CO2 K1
 - a. System
 - b. License
 - c. Community
 - d. Programmer
- 4) The Open source definition is based on the _____. CO2 K2
 - a. Software License
 - b. Free Software Foundation
 - c. Debian Free software guidelines
 - d. Open Source Initiative
- 5) Which of the following is an OSS Operating system? CO3 K3
 - a. Window
 - b. MAC OS
 - c. Linux
 - d. iOS
- 6) While both open and proprietary code can be reused in a wide range of circumstances, open code enables? CO3 K2
 - a. software reuse
 - b. code reuse
 - c. knowledge reuse
 - d. source reuse
- 7) What do you call a specific instruction designed to do a task? CO4 K2
 - a. Command
 - b. Process
 - c. Task
 - d. Instruction
- 8) They normally interact with the system via user interface provided by the application software. CO4 K1
 - a. Programmers
 - b. Developers
 - c. Users
 - d. Testers
- 9) What does the term "open-source" refer to in the context of software? CO5 K2
 - a. Software that is free of charge
 - b. Software with publicly available source code
 - c. Software developed by a single company
 - d. Software with limited user access
- 10) Which famous open-source operating system is based on the Linux kernel? CO5 K1
 - a. Ubuntu
 - b. Windows
 - c. macOS
 - d. Android

Part B
Answer ALL questions

5 x 6 = 30

Each answer should not exceed 400 words or two pages

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|---|--------|
| 11.a. Examine the FOSS does not mean no cost. | CO1 K1 |
| (or) | |
| 11.b. Describe the process of Berkeley software distribution. | CO1 K2 |
| 12.a. Illustrate the principle and methodologies of open source. | CO2 K3 |
| (or) | |
| 12.b. Distinguish between the licences and patents. | CO2 K2 |
| 13.a. Explain the steps to starting and maintaining an Open Source Project. | CO3 K3 |
| (or) | |
| 13.b. Summarize the benefits of open source media. | CO3 K4 |
| 14.a. Evaluate the differences of open source and closed source. | CO4 K5 |
| (or) | |
| 14.b. Point out the ethics of open source. | CO4 K4 |
| 15.a. Appraise the advantages of Apache. | CO5 K5 |
| (or) | |
| 15.b. Express the functionality of Mozilla Firefox browsers. | CO5 K6 |

Part C
Answer ALL questions

5 x 12 = 60

Each answer should not exceed 800 words or four pages

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|---|--------|
| 16.a. Discriminate the differences of free software and open source software. | CO1 K1 |
| (or) | |
| 16.b. Estimate the free software foundation and GNU project. | CO1 K2 |
| 17.a. Assess the functions of open source development model. | CO2 K3 |
| (or) | |
| 17.b. Demonstrate the problems with traditional commercial software. | CO2 K2 |
| 18.a. Examine the requirements of open source hardware. | CO3 K3 |
| (or) | |
| 18.b. Discover the importance of open source design. | CO3 K4 |
| 19.a. Enumerate the social and financial impacts of open source technology. | CO4 K5 |
| (or) | |
| 19.b. Integrate the salient features of open source government. | CO4 K5 |
| 20.a. Discuss the basic concept of Wikipedia. | CO5 K4 |
| (or) | |
| 20.b. Generalize the features of open office and Perl. | CO5 K6 |
