



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

Bachelors Degree (Special) 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. The term FLOSS is associated with _____ CO1K1
 - a. Open Source Software
 - b. Close Source Software
 - c. Proprietary Software
 - d. Non Open Source Software
2. Microsoft Office _____ is a type of operating software. CO1K1
 - a. Shareware
 - b. Proprietary Software
 - c. Freeware
 - d. Free Software
3. What is an OSI? CO2K1
 - a. Open Source Index
 - b. Open Source Image
 - c. Open Source Initiative
 - d. Open Source Instant
4. FOSS stands for CO2K2
 - a. Free Open Source System
 - b. Free Open Source Software
 - c. Free Object Source System
 - d. Free Object Software System
5. Choose which is not a downside of OSS? CO3K3
 - a. Lack of personalized support
 - b. Restricted Support
 - c. No warranty
 - d. Multiple choices
6. How many number of stages in an open source development model. CO3K2
 - a. 6
 - b. 7
 - c. 8
 - d. 9
7. A guideline for the OSS licenses other than GPL. CO4K2
 - a. OSI
 - b. OSD
 - c. OSE
 - d. OSL
8. In which phase do the users who require the software to fall into? CO4K4
 - a. Download and Install
 - b. End use
 - c. Communicate Experience
 - d. Analyze
9. _____ are the some of the open source licensing models. CO5K1
 - a. GNU GPL
 - b. Apache
 - c. BSD
 - d. Mozilla
10. Which of the following is not the file owner in Linux? CO5K2
 - a. Group
 - b. User
 - c. Other
 - d. Admin

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Differentiate Free software and Open Source Software. CO1K4
(or)
- 11.b. Explain the Free Software Foundation. CO1K1
- 12.a. Explain the Open Source Initiatives CO2K2
(or)
- 12.b. Differentiate Licenses and Patents. CO2K3
- 13.a. Describe open source hardware. CO3K2
(or)
- 13.b. Explain the benefits of Open source teaching. CO3K1
- 14.a. Differentiate open source and closed source. CO4K4
(or)
- 14.b. Evaluate the pros and cons of shared software and shared source. CO4K3
- 15.a. Describe the characteristics of Ruby. CO5K2
(or)
- 15.b. Illustrate the architecture of Moodle. CO5K3

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. List and explain the Public Domain software. CO1K4
(or)
- 16.b. Differentiate Open Source Software, Closed Software and Free Software. CO1K2
- 17.a. Describe the history of Open source software. CO2K4
(or)
- 17.b. Discuss about copyrights, copy lefts and patents. CO2K1
- 18.a. List the steps to start and maintain an open source project. CO3K2
(or)
- 18.b. Describe the steps in designing an Open source. CO3K2
- 19.a. Explain open source ethics. CO4K3
(or)
- 19.b. Explain the impact of open source technology in real life. CO4K2
- 20.a. List the feature and usage of Linux. CO5K4
(or)
- 20.b. Examine the benefits of using Open Office. CO5K2