



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

Bachelor's Degree Examination - January 2021
V Semester

Class : III UG
Major : Computer Applications

Time : 3 Hours
Max. Marks: 100

18BCAC21 Open Source Technologies

Part A
Choose the Correct Answer

10 x 1 = 10

1. The open source definition is based on the
 - a. Software license
 - b. free software foundation
 - c. debian software guidelines
 - d. open source initiative
2. Which of the following is an example of open source software?
 - a. Adobe Photoshop
 - b. Microsoft Office
 - c. Libre Office
 - d. SKype
3. OSI with respect to Open Source Software stands for
 - a. Open Source Index
 - b. Open Source Image
 - c. Open Source Initiative
 - d. Open Source Instant
4. FOSS stands for
 - a. Free Open Source System
 - b. Free Open Source Software
 - c. Free Object Source System
 - d. Free Object Software System
5. Which of the following is not a downside of OSS?
 - a. Lack of personalized support
 - b. Restricted Support
 - c. No warranty
 - d. Multiple choices
6. _____ is the number of stages in an open source development model.
 - a. 6
 - b. 7
 - c. 8
 - d. 9
7. The users must agree to the _____ terms and agreements when they use an open source software.
 - a. System
 - b. License
 - c. Community
 - d. Programmer
8. In which phase do the users who require the software to fall into?
 - a. Download and Install
 - b. End use
 - c. Communicate Experience
 - d. Analyze
9. Public domain software is usually
 - a. System supported
 - b. Source supported
 - c. Community supported
 - d. Programmer supported
10. Which of the following is not the file owner in Linux?
 - a. Group
 - b. User
 - c. Other
 - d. Admin

Part B
Answer ALL questions
Each answer should not exceed 400 words or two pages

5 x 6 = 30

- 11.a. Compare and contrast Free software and Open Source Software.
(or)
- 11.b. Discuss the advantages and usages of FOSS.
- 12.a. Examine the principles and methodologies of Open Source Software.
(or)
- 12.b. Analyze the income generation opportunities and problems with the traditional commercial software.
- 13.a. Describe the features of open source hardware.
(or)
- 13.b. Discuss about the usage of Open source media.
- 14.a. Differentiate open source and closed source.
(or)
- 14.b. Evaluate the pros and cons of shared software and shared source.
- 15.a. Describe the characteristics of Linux.
(or)
- 15.b. Illustrate the architecture of Moodle.

Part C
Answer ALL questions
Each answer should not exceed 800 words or four pages

5 x 12 = 60

- 16.a. List and explain the usages of Public Domain software.
(or)
- 16.b. Describe the features of Berkeley Software Distribution (BSD) and GNU project.
- 17.a. Explain the history of Open source software.
(or)
- 17.b. i : What is a License? List any two important FOSS licenses (4 marks).
ii : Discuss about copyrights, copyleft and patent economics of FOSS (8 marks)
- 18.a. Describe the steps to start and maintain an open source project.
(or)
- 18.b. Describe the steps in designing an Open source project.
- 19.a. Expound on open source ethics.
(or)
- 19.b. Elaborate the social and financial impacts of open source technology.
- 20.a. Analyze the effectiveness of adapting hybrid techniques in developing Apache web server.
(or)
- 20.b. Examine the business benefits of using Open Source Software systems.
