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

Continuous Internal Assessment I – August 2025
V SEMESTER

Class : 2019 & 2022 Batch (Repeaters) **Time :2 hours**
Major : Computer Applications **Max. Marks:60**

18BCAC21/21BCAC21 Open Source Technologies

Course Outcomes:
1. Apply the principles of Open source software.
2. Design real time applications using Open source.
3. Develop skill sets in Open source tools.
4. Able to apply the concepts of Open source in solving problems.
5. Ability to build and modify free and open source software packages.

Part A **6 x 1 =6**
Choose the correct answer

1. What is the main benefit of using open source software? CO1K1
   a. High Cost b. No Community support
   c. Access to the source code d. Limited functionality
2. X window System license is released under _____ licence. CO1K1
   a. BSD b. GNU c. Mozilla d.MIT
3. In which year the free software movement was launched? CO2K1
   a. 1984 b.1993 c. 1983 d.1998
4. Traditional software engineering follows _____ model. CO2K2
   a. Cathedral b. Bazaar c. Prototyping d. Incremental
5. In software version, what does the three pieces 2.x.y mean? CO3K1
   a. point, major, minor c. major, point, minor
   b. minor, major, point d. major, minor, point
6. Computer project is an example of? CO3K2
   a. open source software b. free software c. proprietary d. open source hardware

Part B **3 x 6 = 18**
Answer should not exceed 400 words or two pages

7.a. Distinguish between Free software and Open Source Software. CO1K1
(or)
7.b. Discuss about Life Cycle Paradigm and Prototyping Paradigm. CO1K2

8.a. Examine the principles and methodologies of Open Source Software. CO2K1
(or)
8.b. Write short notes on Copyright. CO2K3

9.a. Why copyleft is used. Explain. CO2K1
(or)
9.b. Describe the features of open source hardware. CO3K3

Part C **3 x 12 = 36**
Answer should not exceed 800 words or four pages

10.a. Describe the features of BSD,FSF and GNU project. CO1K1
(or)
10.b. Discuss Open Source Development Model. CO1K3

11.a. Explain the types of licences and how each is different from others. CO2K1
(or)
11.b. Discuss about Patent, its types and importance. CO2K3

12.a. Describe the steps to start and maintain an open source project. CO3K2
(or)
12.b. List the steps in designing an Open source project. CO3K2