

Date: 20.11.2019

Time : (2½ Hours)

Total Marks: 75

- N.B. (1) All questions are compulsory.
(2) Figures to the right indicate marks for respective sub questions.
(3) Figures to the right indicate marks.
(4) Illustrations, in-depth answers and diagram will be appreciated.
(5) Mixing of sub-question is not allowed.

- Q.1) Attempt all. (Each of 5 marks) (15)
- (a) Multiple Choice Questions (Choose the correct alternative.) (5)
- (i) _____ is an Open Source programming language.
(a) Java (b) Turbo C
(c) C# (d) Python
- (ii) LGPL stands for_____.
(a) Library General Public License (b) Lesser General Public License.
(c) Level General Public License (d) Linking General Public License
- (iii) Most commercial software programs enjoy a form of intellectual property protection called_____.
(a) Copyright (b) Copy lefts
(c) Patent (d) Trademark
- (iv) Which of the following is not a phase of life cycle paradigm.
(a) Analysis (b) Manufacturing
(c) Design (d) Coding
- (v) Which of the following is part of OpenOffice.
(a) Kivio (b) 3Dslicer
(c) Calc (d) KDE
- (b) Fill in the blanks. (5)
{ freeware, Sun Microsystems, public domain software, WordPress, internationalization, redistribute copies, study, copyright, localization, shareware }
- (i) Eclipse is a popular IDE donated by _____ to the open source community.
- (ii) Freedom 2 refers to_____.
- (iii) WinZip is _____ software.
- (iv) _____ is one of the content management system.
- (v) _____ is software where there is absolutely no ownership such as copyright, trademark, or patent.
- (c) Short Answers Write answers in one or two lines. (5)
- (i) List any two Open Source database technologies.
- (ii) What are the components of OpenOffice?
- (iii) What is shared source?
- (iv) What is GCC and GDB?
- (v) Give examples of closed source software.

- Q.2) Attempt the following:(ANY THREE) (15)
- (i) Discuss the role of open source in government.
 - (ii) Discuss the problems in traditional commercial software.
 - (iii) Define BSD. Explain its history.
 - (iv) Write a short on the following.
 - i. Apache license
 - ii. BSD license
 - (v) Explain Public Domain Software.
 - (vi) Explain copyright and copy left.
- Q.3) Attempt the following:(ANY THREE) (15)
- (i) Discuss the following about OpenOffice.
 - 1.Introduction
 - 2.Features
 - 3. Any three components.
 - (ii) Write a note on open source media.
 - (iii) Explain open source teaching
 - (iv) Define Debugging. Explain GDB.
 - (v) Define open source hardware. How the hardware can be open?
 - (vi) Explain commercial and non-commercial use of FOSS
- Q.4) Attempt the following:(ANY THREE) (15)
- (i) Explain the concept of Virtualization.
 - (ii) Write short note on development tools.
 - (iii) Describe in brief LAMP.
 - (iv) Explain any three open source database technologies.
 - (v) Explain Android operating system with its versions.
 - (vi) Explain any five features of Linux operating system.
- Q.5) Attempt the following:(ANY THREE) (15)
- (i) How “Foss does not mean no cost” Justify.
 - (ii) Explain the following terms.
 - A .Trademark
 - B. Patent
 - (iii) What are the principles of open source software?
 - (iv) Define the software freedom. What are four degrees of freedom for free software?
 - (v) Explain history of Open source software.
