

**F.Y. B.SC (COMPUTER SCIENCE) – SEM-I**  
**SUB: OPEN SOURCE TRCHNOLOGIES**  
**PUNE VIDHYARTHI GRIHA'S**  
**COLLEGE OF SCIENCE & TECHNOLOGY**

**Q.P CODE:USCS104**

**(TIME :2 ½ Hrs.)**

**TOTAL MARKS :75**

**N.B:-**

1. All questions are compulsory.
2. Answers to the same question must be written together.
3. Numbers to the right indicate full marks.
4. Draw neat labeled diagrams wherever necessary.
5. Use of Non-programmable calculators are allowed.

**Q1) Attempt the following (ANY FOUR) (Each of 5 marks) [20M]**

- A) Write a short note on principles of open source software.
- B) Difference between free software and proprietary software.
- C) Draw and explain waterfall model.
- D) Write a short note down 1) copyleft 2) Patent.
- E) Write a short note on GNU License.
- F) Explain the prototyping paradigm.

**Q2) Attempt the following (ANY FOUR) (Each of 5 marks) [20M]**

- A) List and explain how to start an open source project in detail.
- B) List and explain tools for open source teaching.
- C) What is GitHub and what are the features of GitHub?
- D) What is Wikipedia? how can one contribute to Wikipedia?
- E) List open source business models, Explain any three.
- F) Difference between open source software and closed source software.

**Q3) Attempt the following (ANY FOUR) (Each of 5 marks)**

**[20M]**

- A) Write a short note on LAMP.
- B) List early versions of Android.
- C) What are the advantages and disadvantages of Apache web server?
- D) Write a short note on development tools.
- E) Write a short note on free BSD.
- F) What is Linux operating system and explain its features?

**Q4) Attempt The Following (Any FIVE) (Each Of 3 Marks)**

**[15M]**

- A) What are the tools used for open source development?
- B) Write a short note on Apache License.
- C) How to interact with community on GitHub?
- D) Write a short note on shared software.
- E) Explain any 4 programming languages.
- F) Applications of Linux operating system.