

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Winter 2023 - 24 Examination

Semester: 1

Subject Code: 303105103

Subject Name: Open-Source Software

Date: 24/01/2024

Time: 2:00 pm to 4:30 pm

Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Objective Type Questions - (All are compulsory) (Each of one mark)

(15)

1. An example of Open-Source Software is
 - a. Microsoft Office
 - b. Adobe Photoshop
 - c. Linux
 - d. Autodesk AutoCAD
2. BSD is an example of.
 - a. Proprietary software
 - b. Open-Source Software
 - c. Public Domain software
 - d. Freeware
3. What is the purpose of the Apache License?
 - a. Ensure software remains proprietary
 - b. Promote free software with strict conditions
 - c. Encourage collaborative development with permissive terms
 - d. Restrict the use of software to non-commercial purposes
4. What does FOSS stand for?
 - a. Free Open-Source Software
 - b. Fully Operational Software System
 - c. Fast Operating System Software
 - d. Full Open Standard System
5. Name an open-source hardware platform?
6. What programming languages are commonly associated with open- source development?
7. The GNU Project was initiated to.
 - a. Develop a free operating system .
 - b. Promote proprietary software
 - c. Build closed-source applications
 - d. Advocate for hardware development
8. Name a containerization technology widely used for packaging and distributing applications.
9. open-source virtualization technology is _____ ?
10. The Free Software Foundation was founded by _____ ?
11. Open-Source Software encourages.
 - a. Community-driven development
 - b. Proprietary licensing
 - c. Monopolistic control
 - d. Closed collaboration
12. Which of the following is NOT a well-known open-source license?
 - a. GPL
 - b. MIT License
 - c. Microsoft License
 - d. Apache License
13. How does GitHub facilitate collaboration in open-source projects?
14. full form of GNU, GPL.
15. Which is an example of a popular open-source operating system?

Q.2 Answer the following questions. (Attempt any three)

(15)

- A) Difference between copyright and copyleft.
- B) What Is a License? How to create your own Licenses? ✓
- C) What are the Requirements of Open-source software? ~
- D) What is the role of open-source teaching, and how does it promote knowledge sharing? ✓

Q.3 A) Explain open source principle in detail. ✓

(07)

~ B) Differentiate Proprietary Vs Open-Source Licensing Model ✓

(08)

OR

B) In terms of open-source ethics, what does the principle of "freedom" emphasize? Explain in detail. (08)

Q.4 A) Explain Containerization Technologies with its type.

(07)

OR

✓ A) What is GitHub? What Are Characteristics of Git? ✓

(07)

✗ B) What is Open-source design? Write down its key aspect.

(08)