

**[Time:2.30 Hrs]**

**[ Marks:75 ]**

Please check whether you have got the right question paper.

- N.B:
1. All question are compulsory.
  2. Figures to the right indicate full marks.

- Q.1 Attempt any four of the following: 20**
- A What is GPL and explain the GNU project?
  - B State open-source software products that can aid government:
  - C Explain the principles and methodology of the opensource
  - D What do you mean by Free software? What are the four essential freedoms of free software?
  - E Explain Copyrights and Copyleft
  - F Differentiate between Free Software and Open-Source Software
- Q.2 Attempt any four of the following: 20**
- A Write a case study on Licensing
  - B Write a case study on Mozilla Firefox.
  - C Explain an Open-Source-Software-based License in detail
  - D Write a Case Study on GCC
  - E What is android operating system? Explain its versions
  - F Write a Case Study on Open Source Media
- Q.3 Attempt any four of the following: 20**
- A Write a note on Dockers and Containers.
  - B Explain Virtualization technologies.
  - C What is Container Management Software?
  - D Explain in details LAMP
  - E What is Open Solaris? Explain the features of Solaris
  - F What is FreeBSD? Explain in detail.
- Q.4 Attempt any three of the following: 15**
- A What is internationalization? Explain in detail.
  - B What are the social and financial impacts of open source technology?
  - C Explain an Open-Source-Software-based License in detail.
  - D Write a note on IDEs.
  - E Differentiate between Open source and Closed source
  - F Explain MariaDB Server?

**\*\*\*\*\*END\*\*\*\*\***