(2½ Hours)   [Total Marks: 75]

N.B. 1) All Questions are compulsory.
2) Figures to the right indicate full marks.
3) Mixing of sub questions is not allowed.

Q1   Attempt All(**Each of 5 marks**)   (15)

a. Multiple choice Questions:
    i)   FSF stands for _____
        a. Free software founder   c. Free system foundation
        b. Free source foundation   d. Free software foundation
    ii)   MySql is an licensed under_____
        a. GPL   c. GNU GPL
        b. Microsoft   d. LGPL
    iii)   Wikipedia is created by _____
        a. Eric Raymond   c. Dennis Ritchie
        b. Richard Stallman   d. Jimmy Wales
    iv)   _____ is granting the permission to use intellectual property rights such as trademark or patents.
        a. Licensing   b. Licensor
        c. Licensee   d. License
    v)   _____ is an Open Source programming language.
        a. Java   c. Turbo C
        b. C#   d. Python

b. Fill in the blanks:
(Wikimedia Foundation, Free Software Foundation, Personal Computer Systems, Mobile system, wordpress, Docker, Mozilla foundation, software, Apache Foundation IDE for java, operating system, redistribute copies, study)
    i)   Netbeans is _____ software.
    ii)   _____ is a free software used to create and manage websites.
    iii)   Andriod is operating system for _____
    iv)   Freedom 2 refers to _____.
    v)   Firefox is developed by _____.

c. Short answer (Attempt all):
    i)   Copyleft.
    ii)   Patent.
    iii)   Open source design.
    iv)   Open source Hardware.
    v)   Containerization

Q2.   Attempt the following (**Any THREE**):   (15)
a. Explain history of open source.
b. Write a note on Apache FOSS license.
c. List and explain problems of commercial software's.
d. Describe the role of open source in government.
e. Explain open source initiative.
f. What are the various income generation opportunities of open source software's?

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Q3.   Attempt the following **(Any THREE)**:   (15)
   a. Write a note on GCC.
   b. What are the steps to contribute to Wikipedia?
   c. Discuss about Apache web server.
   d. Describe open source teaching.
   e. Explain with diagram open source developmental model.
   f. What is communication and etiquettes, Explain.

Q4.   Attempt the following **(Any THREE)**:   (15)
   a. Explain FreeBSD operating system.
   b. Describe the following-
          i.   IDE   ii.   Debugger
   c. Write a note on Android operating system.
   d. Discuss virtualization along with its types.
   e. Explain docker technology.
   f. Describe in brief LAMP.

Q5.   Attempt the following **(Any THREE)**:   (15)
   a. What are the principles of open source software?
   b. Explain public domain software.
   c. Write a note on Drupal.
   d. Discuss about open source media.
   e. Explain any two open source database technologies.

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