Paper / Subject Code: 82103 / Free & Open Source Software.

(2 1/2 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.

Ql) 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 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 an ote 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?

Q3. Attempt the following (Any THREE):
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) So
a. Explain FreeBSD operating system.
b. Describe the following
        i IDE ii. Debugger
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,