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

[Total Marks: 75]

(2½ Hours)

N.B.	1) .	All questions are compulsory.			
	2)]	2) Figures to the right indicate marks.			
		3) Illustrations, in-depth answers and diagrams will be appreciated.			
		Mixing of sub-questions is not allowed.			
		Assume suitable data wherever required.			
	3) 1	assume surtuole data wherever required.			
Q1		Attempt All(Each of 5 marks)			
	a)	Multiple Choice Questions			
	1)	GPL stands for			
	-/	i) General Public License ii) General Public License			
		iii) Generic Public License iv) General Private License			
	2)	Which of the following is not a phase of Life Cycle Paradigm / waterfall model?			
		i) Analysis ii) Manufacturing			
		iii) Design iv) Coding			
	3)	is the founder of FSF			
		i) Richard Stallman ii) Denis Ritchie			
		iii) Ken Thomson iv) All of these			
	4)	is a form of licensing in which an author surrenders some but not all			
		rights under copyright law			
		i) Copydown ii) License			
	~ `	iii) Copyleft iv) Patent			
	5)	The term BSD stands for			
		i) Binary software distribution ii) Berkley software distribution			
		iii) Binary software development iv) Berkley software development			
	b)	Fill in the blanks			
	D)	(Waterfall model, full, internationalization, Prototyping model, Firefox, localization,			
		chrome, free hardware design, partial, open source software)			
	1)	is a static, sequential and procedural approach in software engineering			
	20	methodology.			
	2)	copyleft is when all parts of work can be modified by consecutive			
5	300	authors.			
	3)	is the process of adapting software for a specific region or language by			
13 00 E		adding locale-specific components and translating text.			
	4)	is a web browser project descended from Mozilla application suite.			
S SOVY	5)	refers to design which can be freely copied, distributed, modified and			
	DE K	manufactured.			
	2, 6				
20.0x	c)	Short Answers:			
	1)	What is free software?			
	2)	Define Shared software.			
5000	3)	Define GCC:			
8 2 6	4)	Draw symbol of copyright.			
3000	5)				
		Trianis i none domain software:			

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(15)

Attempt the following (Any THREE):

Q2.

	a)	List and explain 4 freedoms of free sofware.	50 × 50
	b)	Define BSD. Explain its history.	6, 2, 5 ₀
	c)	Write a note on following:	12 CO. 2
		i) LGPL license	5 V V
		ii) Internationalization	
	d)	Explain the concept 'Free doesnot mean no cost.'	
	e)	Discuss about Copyleft.	2000
	f)	Differentiate between Open source software and Closed software.	A COS
Q3.		Attempt the following (Any THREE):	(15)
	a)	Write a note on Drupal.	263 37V
	b)	Describe Apache in regards with the following points:	£ 67
		i) History ii) License iii) Applications	
	c)	Define debugging. Explain GDB.	
	d)	What is Github? How to interact with it? Explain.	
	e)	Write a note on open source media.	
	f)	Explain Open source teaching.	
Q4.		Attempt the following (Any THREE):	(15)
	a)	Discuss Android operating system.	(-)
	b)	Define virtualization. Explain its types.	
	c)	Write a note on LAMP.	
	d)	Explain OpenSolaris operating system.	
	e)	Define terms: IDE, Development Tools, Programming languages. Give example.	
	f)	Write any 5 features of Linux operating system.	
Q5.		Attempt the following (Any THREE):	(15)
QJ.	a)	Discuss Life cycle paradigm (waterfall model) as a software engineering	(13)
	u)	methodology.	
	b)	Differentiate between commercial design and free design practice.	
	c)	List and explain any two open source database technologies.	
		Explain Shared Source in regards with following points:	
	2	i) Definition	
	2	ii) Any 2 shared source licenses	
	333	iii) Any 2 shared source programs	
A. T.	e)	Discuss Openoffice.org case study in regards with following points:	
6		i) introduction ii) features iii) any three components	
3,00			
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SA C	6,0x	******	

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