Fucs (I) FOSS (SS)

Q. P. Code: 12210

		(Time: 2½ Hours)	[Total Marks: 75]		
N.B.	1) All que	stions are compulsory.			
		to the right indicate marks.			
		tions, in-depth answers and diagrams will be appreci	ated		
	4) Mixing	of sub-questions is not allowed.			
	, 0	questions is not uno ved.			
Q. 1	Attempt	t All (Each of 5Marks)			
(a)		e Choice Questions	(15M)		
()	i.	Public domain software are those software which	are available in		
		public domain and there is	are available in		
		a. Copyright b. no patent c. no trademark	A no license		
	ii.	GDB stands for			
	71.	a. GNU Debugger b. GNU Database			
	iii.	c. GNU Developer d. GNU Design			
	111.	GPL stands for	\$\$ \$30 X F		
		a. General Public License b. Global Public Lice	ense		
	•	c. GNU Public License d. GNU Permissive L			
	İV.	Google Talkis an example of			
		a. Free software b. Licensed software			
		c. Shareware software d. Proprietary software			
	V.	Windows NT isa licensed operating system based of	on		
		a. Microsoft b. Solarisc. IBM d. Sun Microsys	stems		
(b)	Fill in the				
	(Opens s	ource python IDE,open source initiative,Linux, We	b sites,Mozilla		
		oird, Internet explorer, Sun Microsystems IDE for jav	a, open system		
	interchar	nge, Android, Chrome, operating system software)			
	i.	Eclipse issoftware.			
	ii.	OSI with regards to opens source software stand for	r		
	iii,	operating is free open system for PC.			
	iv,	Wordpress is free, open source software used	to create and		
		manage various types of			
	V.	is free and open source web browser develop	oed by Mozilla		
		foundation.			
c)	Write Answers in two lines.				
	i.	What is Free BSD?			
	ii.	What is shared source?			
	iii.	Define the term "free software"			
	iv.	What is "patent" in open source development?			
	v.	What is containerization?			

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Q. 2	Attempt the following (Any THREE)(Each of 5Marks)	(15M)		
(a)	Compare and contrast Open source vs. closed source.			
(b)	Explain the concept of Marginal Cost and Zero Marginal Cost with regards to			
()	FOSS,			
(c) =	Write short note on Open source ethics.			
(d)	Define license? How does license apply to works in public domain? Explain.			
(e)	Write a note on the following:			
	i. Apache license ii. LGPL license			
(f)	Give the importance of open source in government .			
Q. 3 '	Attempt the following (Any THREE) (Each of 5Marks)	(15M)		
(a)	Discuss Apache Web server case study in detail.	V.O.		
(b)	Differentiate between Commercial design practice and Free design practice.			
(c)	Write a note on GitHub.			
(d)	Define Open source hardware. How hardware can be 'Open'?			
(e)	What is Wikipedia? How to contribute into it? Explain.			
(f)	Explain the following points in Open source teaching:-			
	i. Meaning			
	ii. What are Learning Objects?			
	iii. Where do the Learning objects come from?			
Q. 4	Attempt the following (Any THREE) (Each of 5Marks)	(15M)		
(a)	What is Android Operating system? Discuss.			
(b)	Write a short note on LAMP.			
(c)	Explain in detail the concept of Virtualization.			
(d)	Discuss in detail any two Open source database technologies.			
(e)	Define the terms: - IDEs, Development Tools, Docker, and Programming			
	Language. Give examples.			
(f)	What is Linux operating system? Explain its features.			
Q. 5	Attempt the following (Any THREE) (Each of 5Marks)	(15M)		
(a) =	Explain Shared software and Shared source.	,		
(b)	Write a note on Open source media.			
(c)	Distinguish between Copyright and Copyleft.			
(d)	With the help of diagram, explain open source methodology.			
(e) =	Define software freedom. What are four degrees of freedoms for Free software?			