Fires & open source Software

Q. P. Code: 12210

		(Time: 2½ Hours)	[Total Marks: 75
N.B.	-1) All que	stions are compulsory,	·
		to the right indicate marks.	
		lions, in depth answers and diagrams will be appr	eciated.
	4) Mixing	of sub-questions is not allowed.	•
Q. 1	Attempt	All (Each of 5Marks)	(15N)
(a)		e Choice Questions	(111)
	i.	Public domain software are those software wh	ich are available in
		public domain and there is	
		a. Copyright b. no patent c. no tradema	nrk - d. no license
•	ii.	GDB stands for	
		a. GNU Debugger b. GNU Databas	
		c. GNU Developer d. GNU Design	
•	į iii.	GPL stands for	
		a. • General Public License b. Global Public I	license
		c. GNU Public License d. GNU Permissiv	e License
	iv.	Google Talkis an example of	
·		a. Free software b. Licensed software	1
		c. Shateware software d. Proprietary softw	are
	v.	Windows NT Isa licensed operating system base	
	. <u> </u>	a. Microsoft b. Solarisc, IBM d. Sun Micro	osystems
	•		
(b)		ie blanks	
	(Opens	source python IDE open source initiative, Linux,	Web sites,Mozilla 🕠
	thunder	bird, Internet explorer, Sun Microsystems IDE for	java, open system
		nge, Androld, Chrome, operating system software	e)
	i.	Eclipso issoftware.	
	ii.	OSI with regards to opens source software stand	l for
•	iii.	operating is free open system for PC.	•
	iv.	Wordpress is free, open source software used	d to create and,
	V.	manage various types ofis free and open source web browser dev	ologid by La 10
	6	foundation.	etoped by Mozilla
	2	,	
(c)	Write Ar	iswers in two lines.	
	i.	What is Free BSD?	·
	, ii.	'What is shared source?	
	, ili.	Define the term "free software"	•
	iv,	What is "patent" in open source development?	
	V.	What is containerization?	

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Q. 2 (a)	Attempt the following (Any THREE) (Fach of 5Marks) Confpare and contrast Open source vs. closed source,	(15M1)
(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	
(1)	Give the importance of open source in government.	
Q. 3	Attempt the following (Any THREF) (Each of 5Marks)	(15M)
(a)	Discuss Apache Web server case study in detail.	
(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,	
(p)	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: - IDIs, Development Tools, Docker, and Programming	
(0	Language, Give examples, Andrew Production to Control of the Contr	
(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?	· •