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		(2 ½ Hou	rs)	[Total Marks: 75]		
N.B. 1) Al		questions are compulsory.				
	2) Figu	res to the right indicate marks.				
		3) Illustrations, in-depth answers and diagrams will be appreciated.				
		ing of sub-questions is not allowe				
	,	0 1				
Q. 1	Atten	npt All (Each of 5Marks)		(15M)		
(a)	Multi	iple Choice Questions		, ,		
	i.	Foss stands for	•••••			
		a. Free open source system	b. Free open source softwa	re		
		c. Free object source system	d. Free object software syst	em		
	ii.	OSI with respect to opens source	•			
		a. open source initiative	b. open system interchange			
		c. open source interchange	d. open system interconnec			
	iii.	GCC is	1 7			
		a. GNU collection compiler	b. GNU C compiler			
		c. Global C compiler	-	r		
	iv.	LAMP is	=			
		a. Linux based Advanced My				
			- ·			
		b. Linux Apache Web server MySQL database PHP/Python/Perlc. Linux Android MySQL database, PHP/Python/Perl				
		_	· ·			
	d. Linux Advanced MYSQL Programs v. Oracle VM Virtual Box is an example of					
	v.	•••••				
		a. Free open source software				
			eware software d. Public D	omain		
(b)	Fill in the blanks i is software where source code is available for modification					
	i.		source code is available for	modification		
	ii.	to everyone.	onated by to the	onen source		
	11.	ii. Eclipse is a popular IDE donated by to the open source community.				
	iii.	•	rce web browser developed	d by Mozilla		
		foundation.		•		
	iv.	operating is free	± '			
	v.	is open source project for automation of Linux based				
<i>(</i>)	application.					
(c)	Sho i.	rt answer :(Attempt all) What is open source license	2			
	ii.	What is closed source code				
	iii.	What do you mean by open				
	iv.	What is GPL?				
	v.	What is GNU - debugger?				

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Q. 2	Write a note on public domain software (1				
(a)	Write a note on public domain software. Discuss the concept of "Free doesn't mean no Cost"				
(b)	Discuss the concept of "Free doesn't mean no Cost".				
(c)	Explain open source software development model with a diagram.				
(d)	Write a short note on the following				
	i. Apache license ii. BSD license				
(e)	What is software localization? How it is related to internationalization?				
(f)	Explain the zero marginal cost with respect to FOSS.				
• •					
Q. 3	Attempt the following (Any THREE) (Each of 5Marks) (15				
(a)	Write a short note on the following:				
	i. Wikipedia				
	ii. Wordpress				
(b)	Explain five key components of Open Office.				
(c)	How one can contribute to an open source project using GitHub?				
(d)	Explain the following terms				
	i. Open Source Design				
	ii. Open source Teaching				
(e)	Distinguish between Commercial design practices and Open/Free Design				
	practices				
(f)	What is Open Source hardware? How hardware can be 'Open'?				
Q. 4	Attempt the following (Any THREE) (Each of 5Marks)	(15M)			
(a)	Explain features Linux operating system.	` ,			
(b)	Write short note on Android operating system.				
(c)	List five advantages of Virtualization.				
(d)	Describe in detail containerization.				
(e)	Discuss any two open source database technology.				
(f)	What is Virtualization? Explain any two types of virtualization.				
Q. 5	Attempt the following (Any THREE) (Each of 5Marks)	(15M)			
(a)	Explain the following terms	(15141)			
(a)	i. Copyleft				
	ii. Copyright				
(b)					
(b)	What is communication and etiquette? Explain. Write short note on 'Docker'.				
(c)					
(d)	What are the problems with traditional commercial software?				
(e)	Explain role of open source in government.				
