Q. P. Code: 12211

		(Time: 2½ Hours)	[Total Marks: 75]	
N.B.	1) All ques	tions are compulsory.		
	2) Figures to the right indicate marks.			
	3) Illustrations, in-depth answers and diagrams will be appreciated.			
	4) Mixing of sub-questions is not allowed.			
	1) 1411/1116 (	7 sub questions is not unowed.		
Q. 1	Attempt	All(Each of 5Marks)	(15M)	
(a)	-	e Choice Questions		
	_	SD stands for		
		Berkeley Software Distribution b. Basic S	oftware Distribution	
	c.			
		SI with respect to opens source software stand		
		open source initiative b. open system		
	c.			
		PL is		
		General Public License b. Globally Pu	hlished License	
		General Published License d. Global Pub		
	vi.	W X 1.0 7 6 3 C X 1 10 7 C 3 X 20 X X		
	a. Linux based Advanced MySQL database Programming			
	b. Linux Apache Web server MySQL database PHP/Python/Perl			
	c. Linux Android MySQL database, PHP/Python/Perl			
	d. Linux Advanced MYSQL Programs			
	v. Adobe PDF an example of			
	a.	Freeware b. Licensed softw	vare	
		Shareware software d. Closed Software		
			\$ <sup>6</sup>	
(b)	Fill in th	ne blanks		
	-07 (5) 00	(Public domain software, IBM, Sun Microsystems, Mozilla thunderbird,		
	ANT CYNV	explorer, Linux, Windows, Docker, Wordpres		
	o vivi	is software where there is ab		
	0 0 0 0 0 0	such as copyright, trademark, or patent.	j i	
	ii.	Eclipse is a popular IDE donated by	to the open source	
		community.	•	
	iii.	is free and open source web b	prowser.	
	iv	operating is free open system		
		is open source project for autor	mation of Linux based	
	4,30,9,4,4	application.		
	12, 22, 20, 20, 20, 20, 20, 20, 20, 20, 2			
(c)	Write Answers in two lines.			
		What is free software?		
	ii.	What is closed source code software?		
	iii.	What do you mean by "Software Freedom"?		
	iv.	1 A 2 A 2 A 2 A 3 A 2 A 2 A 2 A 2 A 2 A 2		
	(	List any two Open Source database technolo	gies.	

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Q. 2 Attempt the following (Any THREE) (Each of 5Marks) (15M)Give comparison between Free Software and Open Source software. (a) (b) Explain the concept of "Free doesn't meanno cost". (c) Write short on principals of open source. (d) Write a note on the following: LGPL licenses ii. Apache license (e) Discuss the problems in traditional commercial software. (f) Explain the zero marginal cost with respect to FOSS. Q. 3 Attempt the following (Any THREE) (Each of 5Marks) (15M)Write a note on the following: (a) i. Drupal Wordpress Explain five key components of Open Office. (b) How one can contribute to Wikipedia? Explain. (c) (d) Explain the following terms: Open Source Media ii. Open source Hardware Distinguish between Commercial design practices and Open Design practices. (e) Explain process of testing open source code. (f) Attempt the following (Any THREE) (Each of 5Marks) Q. 4 (15M)Explain the features of Android operating system. (a) (b) Write short note on Open Solaris operating system. Write sort note on "virtualization technology" (c) Discuss containerization technology for IDE. (d) Write short note on "debugger". (e) Write short note on development tools. (f) Attempt the following (Any THREE)(Each of 5Marks) Q. 5 (15M)Explain the following terms: (a) Trademark ii. Copyleft (b) What is communication and etiquette? Discuss. Explain role of open source in today's word. (c) (d) How the mode of funding followed for Apache Web Server project? Write short note on 'Docker'. (e)

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