**QP CODE: 757400** 

		(2 ½ Hours)	[Total Marks: 75]
N.B.	1) All c	uestions are compulsory.	
	2) Figu	res to the right indicate marks.	
	3) IIIus	trations, in-depth answers and diagrams will be	e appreciated.
	4) Mixi	ng of sub-questions is not allowed.	
Q. 1		pt All (Each of 5Marks)	(15M
(a)		ple Choice Questions	
	i.	Foss stands for	
		·	source software
		•	software system
	ii.	OSI with respect to opens source software star	
			m interchange
	***		m interconnection
	iii.	GCC is	1
		a. GNU collection compiler b. GNU C co	F 1
	•		vertor compiler
	iv. LAMP is		
		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		Python/Perl
		d. Linux Advanced MYSQL Programs	
	v. Oracle VM Virtual Box is an example of		
		a. Free open source software available under	: GNU-GPL
		b. Licensed software c. Shareware software	e d. Public Domain
(b)		the blanks	
	i.	is software where source code is	available for modification
	ii	to everyone.  Eclipse is a popular IDE donated by	to the open source
	11.	community.	to the open source
	iii.	is free and open source web browser developed by Mozilla	
		foundation.	
	iv.	operating is free open system for	
	v.		
(a)	Cha	application.	
(c)	i.	rt answer :(Attempt all) What is open source license?	
	ii.	What is closed source code software?	
	iii.	What do you mean by open source ethics?	•
	iv.	What is GPL?	
	v.	What is GNU - debugger?	

{TURNOVER

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

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Explain role of open source in government.

(e)