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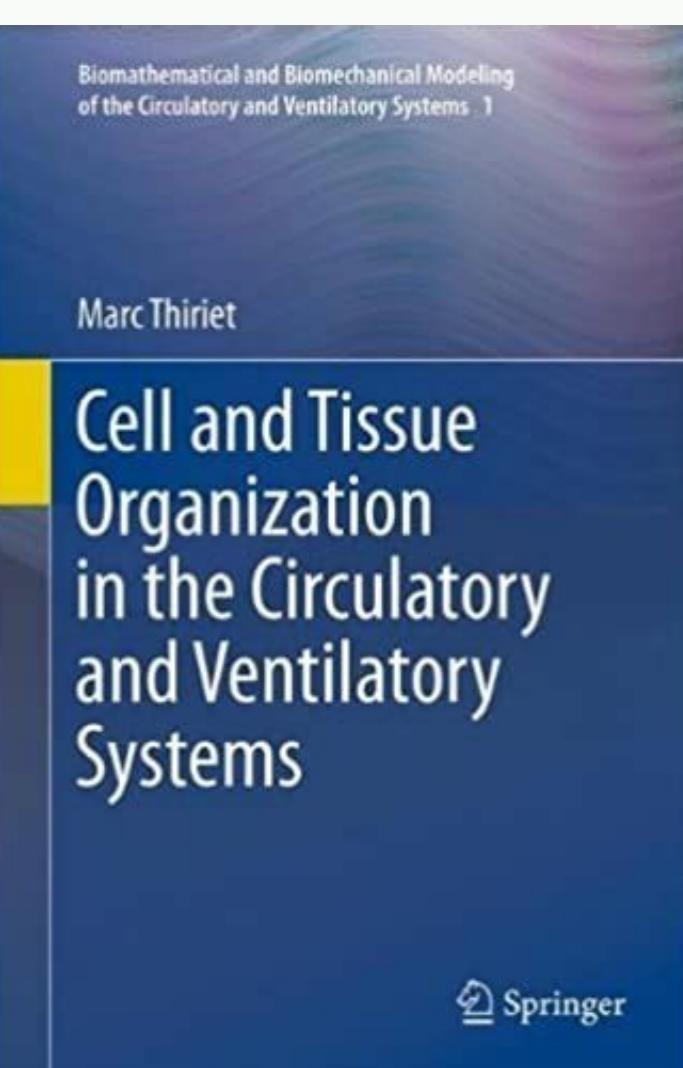
BG | M1 | DT | S BGSE | BDA | 01 | 12 | 17  
Sub:- Big Data Analytics  
(3 Hours) Q.P.Code: 25681

- N. B: 1. Question **ONE** is compulsory.  
 2. Attempt any **THREE** out of remaining.  
 3. Figures to the right indicate full marks.  
 4. Assume suitable data if necessary.

Qu-1	a) What are the characteristics of big Data?	5
	b) Explain Hadoop Architectural Model.	5
	c) List the different issues and challenges in data stream query processing.	5
	d) Explain NoSQL data Architecture patterns.	5
Qu-2	a) Explain DGIM algorithm for counting ones in a stream with example.	10
	b) Explain Social Network graph clustering algorithm with example.	10
Qu-3	a) Explain Model for Recommendation System in detail.	10
	b) Explain Matrix - Matrix Multiplication using TWO step MapReduce model.	10
Qu-4	a) Explain PageRank algorithm with suitable example.	10
	b) Explain Bloom's filter for stream data mining with example.	10
Qu-5	a) Explain PCY algorithm with suitable example.	10
	b) i) Find Jaccard distance $\{1, 2, 3, 4\} \& \{2, 3, 5, 7\}$ and $\{a, a, a, b\} \& \{a, a, b, c\}$ ii) Find Hamming Distance between 110011 & 010101 and 11001 & 01011 iii) Compute the cosines of the angles between $(3, -1, 2)$ and $(-2, 3, 1)$ .	10
Qu-6	Write a note on	20
	a) Hadoop Ecosystem	
	b) CURE Algorithm	
	c) HITS	
	d) MapReduce programming model	

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## Computer Virus and Protection Methods Using Lab Analysis

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**Abstract** - The aim of this paper is to explore the hypothesis of a computer virus threat, and how destructive it can be if executed on a targeted machine. What are the possible counter measures to protect computers from these threats? In this study, we performed an analysis from the data extracted from different test of scenarios and labs conducted in a test environment. Information security risks associated with computer viruses can infect computers and other storage devices by copying themselves into a file and other executable programs. These files get infection and allow attackers to connect to target systems by using backdoors. The results of this study show that, the proper security implementations and the use of up to date operating systems patches and anti-virus programs helps users to prevent the loss of data and any viral attack on the system. Nevertheless, this observation could be used for further research in the network security and related fields; this study will also help computer users to use the possible steps and techniques to protect their systems and information from any possible attacks on their network systems.

**Keywords:** computer virus, computer threats, lab analysis

### I. INTRODUCTION

Cyber security is the biggest concern in today's world. This is increasing each day as information security researchers reveal new threats and security vulnerabilities in the technologies that are widely used, which puts the security at a higher risk [1]. The number of network attacks is at its highest level in last few years, the biggest threat to any computer system is computer virus which proves itself to be the most devastating and the most commonly found technique to compromise systems. Moreover, investigating a various security features [2-4] could be an interesting path to explore in the future to protect Big Data [5]. This research paper will address these threats and we will try to find out its operations and types of attacker who can use these tools to compromise the security system. Finally, we will discuss the tips and techniques that can prevent us from being infected by these malicious and sophisticated computer viruses.

#### A. Virus

Computer viruses are basically a computer code which is capable of copying itself to other files and performs the required tasks mentioned in it codes. Virus is the most commonly used terminology in discussions due to its nature. The most appropriate term we can use is self-replicating programs because in the beginning the intentions were to create an artificial intelligent program nonetheless later it

was changed for different purposes. There are number of viruses which have their own purpose and propagation techniques [1]. The basic routines that are normally used in computer viruses, are as follows.

Functional diagram of a computer virus, which has search, copy and anti-detection routines to avoid any detection from anti-virus software is shown in Fig. 1. Fig. 2 representing the number of updates that Avast anti-virus software provides to its users which is increasing every month. Fig. 2 gives a better understanding of the databases getting new and more data about computer viruses every month which should be shared with every user to prevent them from any newer threats.

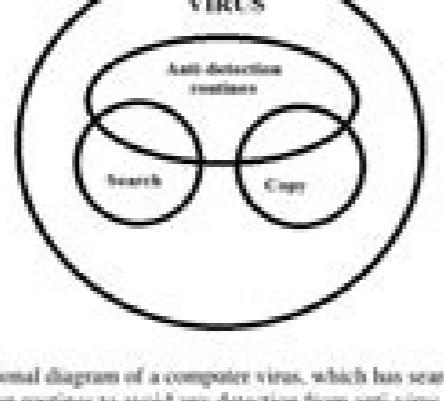


Figure 1. Functional diagram of a computer virus, which has search, copy and anti-detection routines to avoid any detection from anti-virus software

### B. Global Statistics of Computer Viruses and Its Attacks

Here are some statistical data that will show some important information regarding computer viruses and its severity.

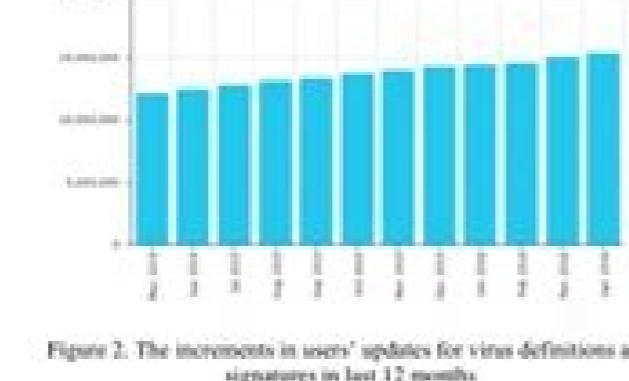


Figure 2. The increments in users' updates for virus definitions and signatures in last 12 months.

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