Paper / Subject Code: 90933 / Information Tech.: Offensive Security

(Time: $2\frac{1}{2}$ hours)

[Total Marks: 60]

N.	B.: (1) All questions are compulsory.	
	(2) Make suitable assumptions wherever necessary and state the assumption	ns made.
	(3) Answers to the <u>same question</u> must be <u>written together</u> .	-11
	(4) Numbers to the <u>right</u> indicate <u>marks</u> .	1
	(5) Draw neat labeled diagrams wherever necessary.	
	(6) Use of Non-programmable calculator is allowed.	
1.	Attempt any two of the following:	12
a.	Explain the Cloud Computing Fault Model in detail.	12
b.	Discuss how do you define threats to web services.	
c.	Explain Security Assertion Markup Language Protocol in detail.	7
d.	Discuss privacy requirements highlighted by ITU-T.	100
u.	Discuss privacy requirements nightighted by 110-1.	
2.	Attempt any two of the following:	12
a.	How will you counter social engineering attacks?	
	What id the need for vulnerability assessment? Explain.	
b.	What are the different motivators for insider threat actors? Explain.	
C.	Discuss some security regulations and laws.	
d.	Discuss some security regulations and laws.	
2	Attempt any two of the following:	12
3.	Enlist and discuss the scenarios where Metasploit maybe used.	
a.	Explain the components of Metasploit.	
b.	Explain the components of Metasploit.	
C.	Discuss Metasploit payloads in detail.	
d.	Discuss Metaspion payloads in detail.	
	Att of the followings	12
4.	Attempt <u>any two</u> of the following:	
a.	What is a meterpreter? Explain in detail.	
b.	What is a shellcode? Explain reverse shell and blind shell?	
C.	How do we perform social engineering with Metasploit? Explain.	
d.	What is the msfvenom utility? Explain.	
	Col. C. Hamilton	12
5.	Attempt any two of the following:	
a.	Discuss in detail modelling threats.	
b.	What is the Intelligence Gathering and Reconnaissance Phase? Discuss in detail.	
c.	Discuss the pre-interactions phase of a penetration test in detail.	
d.	What is Metasploit? Discuss the basics of Metasploit.	