

(2 ½ Hours)

[Total Marks: 75]

- N.B. 1) All questions 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.

**Q. 1 Attempt Any FOUR from the following (20M)**

- (a) What are the skills required of a Ethical Hacker? Explain.
- (b) Describe the term DNS Enumeration in detail
- (c) Explain the HTTP Tunneling technique.
- (d) Write a short note on footprinting.
- (e) Explain the different steps in Enumeration process
- (f) Describe the most commonly used ping sweep techniques.

**Q. 2 Attempt Any FOUR from the following (20M)**

- (a) Describe the working of DOS attack and its types
- (b) What are Keyloggers and how do they work?
- (c) Define rootkits. Explain its types.
- (d) What does MAC flooding mean? Explain.
- (e) Explain the Patch Management techniques applied to secure a Webservers.
- (f) State and explain some countermeasures on DOS/DDOS attack

**Q. 3 Attempt Any FOUR from the following (20M)**

- (a) Define following term a) Threats , b) Malware, c) Phishing
- (b) Explain in detail Wireless Sniffing and its working.
- (c) Define the term Rogue Access Point and explain its working.
- (d) Explain steps to secure wireless networks in details.
- (e) Define stack based buffer overflow in brief.
- (f) Define term authentication and its types.

**Q. 4 Attempt Any FOUR from the following (Any FIVE) (15M)**

- (a) Define Hacktivism and explain the different ways it can be manifested.
- (b) What is ARP spoofing? Explain in detail.
- (c) Define web application threats and explain their different types.
- (d) What are the different types of DNS records in Ethical Hacking?
- (e) Define E-mail Tracking and explain how it works.
- (f) Briefly explain the CEH Scanning Methodology.

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