Duration: 3hrs **[Max Marks: 80]**

N.B. : (1) Question No 1 is Compulsory.
(2) Attempt any three questions out of the remaining five.
(3) All questions carry equal marks.
(4) Assume suitable data, if required, and state it clearly.

Q.1 Answer any four questions. Each question carries five marks. **[20 M]**

A Explain the rootkit in detail.
B Explain Buffer overflow attack.
C Explain different networking components.
D Write a short note on TACACS.
E Write a short note on windows OS Security.

Q.2 Answer the following.
A Explain in detail database security requirements. **[10 M]**
B Explain the RBAC model in detail with a suitable example. **[10 M]**

Q.3 Answer the following.
A Explain different types of authentication Method. **[10 M]**
B What are the design issues IT organization to build IT infrastructure? **[10 M]**

Q. 4 Answer the following.
A Explain different types of software vulnerabilities and write anyone type of malware explanation in detail. **[10 M]**
B Explain IPSec protocol in details. **[10 M]**

Q. 5 Answer the following.
A Explain Cross-site Request Forgery with an example. **[10 M]**
B Explain different attacks on websites, how to save from these attacks. **[10 M]**

Q. 6 Answer the following.
A Explain IP Addressing Schemes. **[10 M]**
B Explain the Inference channel attack with a suitable diagram. **[10 M]**

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