Duration: 3 Hours **Max. marks: 80**

N.B. (1) Question No. 1 is compulsory.
(2) Out of remaining questions attempt any three.
(3) Figures to right indicate full marks.

Q1) Solve any four **20 M**

a) Explain SQL injection attack in detail with example

b) What is Buffer Overflow attack and how is it prevented?

c) How is VPN helpful in securing data?

d) Describe in brief different countermeasures for cloud security.

e) What is authentication? Explain any two techniques of authentication.

Q2) a) Explain different access control policies using suitable examples. **20 M**

b) Explain different wireless network threats.

Q3) a) Explain BIBA Multilevel security model with appropriate diagram. **20 M**
Explain different types of email attack.

Q4) a) Describe in brief different countermeasures for cloud security. **20 M**

b) Explain different web servers and web browser attacks?

Q5) a) What is session Hijacking? Explain various techniques that could be used for Hijacking sessions. **20 M**

b) What is OWASP? Explain its ten vulnerabilities.

Q6) a) Explain in detail Business Continuity and Disaster Recovery Planning. **20 M**

b) What are the challenges in legal enforcement in the case of cybercrimes?

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