[Time: $2\frac{1}{2}$ Hours]   **[Marks: 60]**

Please check whether you have got the right question paper.

N.B: 1. All questions are compulsory.
         2. Figures to the right indicate full marks.
         3. Draw diagrams where necessary.

Q.1   Solve any TWO.   **12**
   a. What is software testing? Give its objectives and principles.3
   b. Distinguish between Black Box testing and White Box testing.
   c. What are internal intrusion techniques, its detection and prevention system?

Q.2   Solve any TWO.   **12**
   a. What is buffer overflow?
   b. What is port scanning?
   c. Distinguish between OS platform. Difference between Windows/Ubuntu/UNIX.

Q.3   Solve any TWO.   **12**
   a. What is firewall? Explain types of firewall.
   b. What is insecure logon system?
   c. Explain the Three Way Handshake with the help of a diagram.

Q.4   Solve any TWO.   **12**
   a. What is patch management?
   b. What are User Domain Policies?
   c. What is the Role of MBSA software?

Q.5   Solve any THREE.   **12**
   a. What is TELNET and FTP in detail?
   b. Explain SMTP and SNMP protocol in detail
   c. What are the types of logs?
   d. Explain MD5 protocol., Explain with the help of diagram.

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