

Total No. of Questions : 6]

SEAT No. :

**P3703**

[Total No. of Pages : 2

**Engg. - 50**

**T.E. (Computer Engineering) (Semester - I)**

**Computer Forensic & Cyber Applications (In Sem.)**

**(2012 Pattern)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Solve Q-1 or Q-2, Q-3 or Q-4, Q-5 or Q-6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Assume Suitable data if necessary.*
- 4) *Figures to the right indicate full marks.*

- Q1)** a) Define network topology and explain any two network topologies. [4]  
b) Describe the layers of TCP/IP model with suitable diagram. [4]  
c) Differentiate between router and switch network devices. [2]
- Q2)** a) Explain periodic listen and sleep operation of sensor MAC. [4]  
b) Draw and explain 802.15.4 super frame structure. [4]  
c) Explain circuit switching in short. [2]
- Q3)** a) Define digital forensic and explain principles of digital forensic. [4]  
b) What is Modus Operandi? Explain MO behavior with example. [4]  
c) Distinguish between direct and circumstantial evidence. [2]
- Q4)** a) Write short note on Indian IT act. [4]  
b) Describe four fundamental principles of handling digital crime scene. [4]  
c) Draw staircase model of digital investigation. [2]

*P.T.O.*

- Q5)** a) Write short note on forensic preservation of volatile data. [4]  
b) Explain role of computer in violent crime with example. [4]  
c) Explain time as an alibi with example. [2]
- Q6)** a) Write short note on Investigative Reconstruction in Violent Crime. [4]  
b) Describe in brief how computer intruders operate. [4]  
c) Explain location as an alibi with example. [2]

