[4658] – 593

Seat No.	

T.E. (Computer) (Semester – I) Examination, 2014
COMPUTER FORENSIC AND CYBER APPLICATIONS
(2012 Course)

Time : 3 Hours Max. Marks : 70

***Instructions** : 1) Solve Q. **1** or Q. **2**, Q. **3** or Q. **4** , Q. **5** or Q. **6**, Q. **7** or Q. **8**.*
*2) **Neat** diagrams must be drawn **whenever** necessary.*
*3) Assume suitable data if **necessary**.*
*4) Figures to the **right** indicate **full** marks.*

1. a) Explain following network hardware components **8**
   1) Hub
   2) Repeater
   3) Switch
   4) Router

   b) What are different digital investigation process models ? Describe any one. **6**

   c) Explain how intruders make use of social engineering and reverse social engg. to achieve their motive. **6**

   OR

2. a) Explain periodic listen and sleep operation in S-MAC. **8**

   b) Explain evidence exchange principle with neat diagram. **6**

   c) Write short note on investigative reconstruction in violent crime. **6**

3. a) Define cyber stalking and explain how cyber stalkers operate. **8**

   b) Explain the following terms with respect to reconstruction. **8**
   i) Functional Analysis
   ii) Relational Analysis

   OR

4. a) Explain the following terms. **8**
   i) Private key encryption
   ii) Public key encryption

   b) Write short note on
   i) File formats and carving **8**
   ii) Digital stratigraphy

P.T.O.

5. a) Describe NTFS file system. **8**

   b) Explain how to handle mobile devices as source of evidence. **8**

OR

6. a) Describe unix file system. **8**

   b) Explain in brief Intellectual Property Rights (IPR). **8**

7. a) Explain E-mail forgery and tracking in detail. **9**

   b) Write short note on **9**
      i) Online anonymity and self-protection.
      ii) Searching and tracking on IRC.

OR

8. a) Differentiate between static IP address and dynamic IP address. **6**

   b) Explain different logs in TCP/IP related digital evidence. **9**

   c) Enlist seven main services provided by internet. **3**
