FACULTY OF ENGINEERING & TECHNOLOGY
B.E (CSE/IT) Examination - June – 2015
Computer System Security & Laws (CSE/IT)
(Revised)

[Time: Three *Hours*]   [Max. Marks: 80]

"Please check whether you have got the right question paper."

N.B
    i) Q.1 and Q.5 are compulsory.
    ii) Solve <u>any two</u> questions from Q.2 to Q.4 and Q.6 to Q.8
    iii) Figures to the right indicate full marks
    iv) Please be specific while writing answers and aroid bluffing while writing answers.

SECTION-A

Q.1 a) What is difference between digital signature and digital certificate?   05
      b) What is "Biometrics"? Will biometrics solve all security problems? Comment on biometric   05
         accuracy.

Q.2 a) How vegener cipher works. Also explain basic steps to attack on vegener cipher.   08
      b) Describe four security attacks with suitable example.   07

Q.3 a) Explain the difference between Hashing and encryption. List any three hash function application and 08
         describe one application in detail.
      b) How role based authentication is different than rule based authentication explain with example.   07

Q.4 a) University examination department want to design security system for their information   08
         management system. Suggest suitable model of security & explain all the rules in context with the
         same.
      b) Using the RSA public key crypto system, with a =1, b =2, etc.   07
         i) if p =3 , q = 11 and e =3, find d.
         ii) Using p =5, q = 11 and d =27 find e and encrypt "abcd"

SECTION -B

Q.5 a) What is the purpose of SET protocols.   05
      b) Explain pretty Good privacy (PGP) message generation and reception process.   05

Q.6 a) What is the purpose of incident response plan and elaborate its goals.   08
      b) Explain different alert codes of TLS protocols.   07

Q.7 a) Explain Handshake and record protocol in secure sockets layer (SSL).   08
      b) Explain IT Act 2000 with respect to its scope, jurisdiction and offense.   07

Q.8 a) Why do you need computer forensics? What is digital data and where it be found?   08
      b) List any four forensic tolls. Explain Nmap and Wire shark   07