Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14CS3073** | **Duration :** | **3hrs** |
| **Sub. Name :** | **Web Security** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | List the various symmetric key algorithms and explain. | CO2 | **10** |
| b. | Explain with examples what are the various attacks in Cryptanalysis? | CO2 | **10** |
| **(OR)** | | | | |
| 2. | a. | Find the cipher text using Columnar Transposition and explain?  Key = 1 4 5 3 2  Plaintext = T H I S IS A C O LU M N A R T R A N SP O S I TI O N | CO1 | **5** |
| b. | List the various Web Security Problems. | CO1 | **5** |
| c. | How does HMAC work in verifying the integrity of a message? | CO1 | **10** |
| 3. | a. | What is identity theft? What are the various strategies to protect from identity theft? | CO1 | **10** |
|  | b. | What is cookies?How do you protect your email address from spammers? | CO2 | **10** |
| **(OR)** | | | | |
| 4. | a. | How can we send secure email using Hushmail? | CO2 | **10** |
|  | b. | Write notes on Omniva’s self distructing email? | CO2 | **10** |
| 5. | a. | What are the various biometric techniques that are available to secure the system? | CO1 | **10** |
|  | b. | Demonstrate how to create a public/private key pair using PGP? | CO1 | **10** |
| **(OR)** | | | | |
| 6. | a. | With a neat diagram explain the X.509 certificate? | CO1 | **10** |
|  | b. | How to create a digital certificate using Verisign? | CO2 | **10** |
| 7. | a. | What are the several measures to protect the computer from physical threats? | CO1 | **10** |
|  | b. | Write notes on Script kiddies,Ideologues and national agents. | CO1 | **10** |
| **(OR)** | | | | |
| 8. | a. | List the various tools that are used by attackers to hack the systems? | CO1 | **10** |
|  | b. | What is a firewall?Explain the different types of firewalls? | CO1 | **10** |
|  | | **Compulsory:** |  |  |
| 9. |  | Write short notes on: |  |  |
|  | a. | Secure Electronic Transaction | CO2 | 8 |
|  | b. | Gator Wallet | CO2 | 6 |
|  | c. | Patents | CO2 | 6 |

ALL THE BEST