P-Corcle 1701, M.E. Sem II Choice Base (II), May 2017 Security 4 Risk Managemen E. Q.P.Code: 017011

(3 Hours) Total Marks: 80

| | | 200 |
|--------|--|------------------|
| Instru | ctions: - 1) Question No 1 is compulsory; solve any 3 questions from remaining 5 question 2) Assume suitable data wherever necessary. | S |
| | 3) Figures to the right indicate full marks. | |
| Q 1 | a) You are the risk manager of large hotel. What are the risks you will have to manage a Give a liable framework for management of risk. | nd how (10) |
| | b)Discuss briefly the stages of an attack on IT infrastructure. List and explain some of that can be used at each stage. | the tool (10) |
| Q 2) | a) Explain in detail the Qualitative Approach of Risk Assessment. | (10) |
| | b) What are the components of Enterprise Information Security Policy (EISP)? Compar Issue Specific Security Policy SysSP. | e with (10) |
| Q 3) | a) Discuss some port scanning methods used by attackers and security consultants and list tools to perform the same. | st some (10) |
| | b) Discuss systems criticality matrix and Information criticality matrix for an organizatio dealing with insurance policy online. | n (10) |
| Q4) | a) What is risk assessment framework. Explain any risk assessment framework in detail. | (10) |
| | b) Discuss the assessment of database and web applications services. | (10) |
| Q 5) | a) Give a brief overview of the SSE-CMM maturity model. | (10) |
| and of | b) Explain what is Information planning and Governance. What are Information policy standards? | (10) |
| Q6) | a) What are the contents of a good report? What are post assessment activities. | (10) |
| 100 | b) List the different categories of threats to information security and elaborate on any thre | ee. |
| 300 | | (10) |
| 1.25 | #A^K_C_C_C_C_C_C_C_C_C_C_C_C_C_C_C_C_C_C_C | |

M.E. Sem II (Churce Base) It High Performance Omputy Q.P. Code: 13949

| | (3 hours) | [80 marks] |
|---------------|--|--------------|
| Instructions: | 1. Question number 1 is compulsory | |
| | 2. Attempt any three questions from Question no 2 to Question no 6. | |
| | 3. Assume suitable data if necessary. | |
| Q1. A) Wha | t are the dataflow design alternatives? Explain in Detail. | [10] |
| B) Expl | ain the recent developments in Nanotechnology and its impact on HPC | [10] |
| Q2. A) Expl | ain SIMD, MIMD and SMIT architecture? | [10] |
| B) Defin | ne CUDA? Explain the CUDA processor architecture. | [10] |
| Q3. A) Give | e difference between MPI and Open MP. | [10] |
| B) Why | process synchronization is required? Explain different types of synch | ronization |
| mech | nanisms briefly. | [10] |
| Q4. A) Wha | t are the principles of Message passing programming? | [10] |
| B) Expl | ain in detail Memory hierarchy and transaction specific memory desig | n using |
| CUD | DA? | [10] |
| | on parallel algorithm structure for performing Partitioning and Matrix | input / [10] |
| Outp B) Expl | ain architecture of NVIDIA GPU. | [10] |
| | | [] |
| Q6. Write sh | nort note on the following (any Two): | [20] |
| a) Majo | or design issues of Data Flow computers. | |
| b) Loos | sely coupled system vs. tightly coupled system. | |
| c) Petas | Scale Computing. | |
| d) Quar | ntum Computers. | |

Q.P. Code: 17066

[Time: Three Hours] [Marks:80] Please check whether you have got the right question paper. N.B: 1. Question.No.1 is compulsory. 2. Attempt any three questions from the remaining questions. Assume suitable data wherever applicable. a) Explain the paradigm of web Analytics 2.0. b) Explain various web site design issues. 10 22 a) Explain how rich Internet applications can be developed with help of AJAX. 10 b) Explain the critical web metrics used in clickstream analysis. 10 23 a) Explain the semantic web stack. 10 b) Describe SOAP protocol and the message structure briefly. 10 24 a) Design a vocabulary for describing books and communicating about them with other people. Model the 10 vocabulary by defining suitable classes and properties, and create a conceptual model. Then write sample statements in RDF. b) Write an ontology about geography: cities, countries, capitals, borders, states, and so on. 10 a) Explain A/B testing and multivariate testing for testing websites. 10 b) Explain any open source framework for rich internet applications. 10 25 a) Explain how to design a responsive web with HTML5 and CSS. 10 b) What is Web Service Architecture and explain SOA characteristics supported by web services. 10

(3 Hours)

Max. Marks: 80

| Please check whether you have got the righ | it question paper | | 7 |
|--|-------------------|-------|---|
| (1) Question No. 1 is compulsory | 4 C C C C C | 4 2 X | - |

| N.B.: | (1) Question No. 1 is compulsory. |
|-------|--|
| 4 | (1) Question No. 1 is compulsory.(2) Attempt any Three questions out of remaining Five questions. |

(3) Figures to the right indicate full marks. (4) Assume suitable data if necessary.

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|-------|---|--|--|------------|
| Qu-1 | a) | Discuss the performance of Iterative Deepening Depti | h First Search. | 05 |
| | b) | List and explain the best suited problem characteristic | s for Decision tree learning. | 05 |
| | c) | List and explain components of AI Program. | | 05 |
| | d) | Explain Elements of Reinforcement Learning. | | 05 |
| Qu-2 | a) | Which agent is applicable for Automatic car and Robo choice of agent. | t Mail & Parcel sorting? Justify your | 10 |
| | b) | Explain Error Back propagation algorithm in detail. | | 10 |
| Qu-3 | Qu-3 a) Explain Hidden Markov Model with the help of example which includes state transition matrix, observation probability matrix, and initial probability matrix. Explain how Viterbi algorithm reduces complexity from exponential to linear? | | | 10 |
| | b) | Explain stock price prediction using suitable model for detail. | learning, training and testing in | 10 |
| Qu-4 | a) | Explain working Support Vector Machine with suitable | e example, | 10 |
| | b) | Consider the following rule based system with Rules: R1: IF hot AND smoky THEN ADD fire R2: IF alarm_beeps THEN ADD smoky R3: IF fire THEN ADD switch_on_sprinklers R4: IF dry THEN ADD switch_on_humidifier R5: IF sprinklers_on THEN DELETE dry Apply forward chaining algorithm and backward chain | Facts: F1: alarm_beeps F2: hot F3: dry sing algorithm to solve the problem. | 10 |
| Qu-5 | a) | Explain Logistic Regression with suitable example. | | 10 |
| 18.00 | b) | Explain Naive Bayes classifier with suitable example. | | 10 |
| Qu-6 | A BOOK | Write short note on any FOUR | | 20 |
| 30.0 | a) | Perceptron learning rule. | | |
| 337 | b) | Partially Observable States. | | |
| 33 | C)_ | Propositional logic | | |
| | (b | Local beam search | | |
| 337 | e) | Applications of Al | | |

Sem-II T5732 TO T8432T / T8050 ELECTIVE II RESEARCH METHODOLOGY May-2017
All branch Q.P.Code:13395

| | | (3 hours) [Max Marks-8 | 801 |
|-----|--|---|------|
| N.I | 3. (| 1) Attempt any four questions out of six questions | , |
| | (2) Assume any additional data if necessary and state it clearly | | |
| | | (3) Explain answers with neat sketches wherever necessary | |
| | | (5) Explain answers with heat sketches wherever necessary | |
| 1. | a) | Explain in detail the essentials of a good research report | [10] |
| | b) | Explain the statistics for Data Analysis and Reporting. | [10] |
| 2. | a) | Explain in brief the stages in Scientific Research process | [10] |
| | b) | Briefly describe various types of research | [10] |
| - | - \ | What do not make the termination of the talent into | [10] |
| 3. | a) | What do you mean by 'Sample Design'? What points should be taken into | [10] |
| | | consideration by a researcher in sample design for any research project? | |
| | b) | Formulate a research problem, taking into consideration all the aspects | [10] |
| 4. | a) | Explain in details the characteristics of research | [10] |
| | b) | Enumerate the different methods of collecting data giving one example each | [10] |
| | U | Diametric the different methods of concerning that giving one example each | [10] |
| 5. | a) | State the objectives of research and illustrate the issues and problems in | [10] |
| | | research | |
| | b) | Explain validity testing for research and the ethical issues faced | [10] |
| 6. | a) | What do you understand by Research Design? State its types and significance | [10] |
| | b) | What are the Characteristics of a good hypothesis? Explain (i) Type I and | [10] |
| | | Type II errors (ii) Level of Significance (iii) variables in Hypothesis | [] |
| | | -yp (ii) Devel of organization (iii) variables in Hypothesis | |