

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.
 3. Assume suitable data wherever applicable.

- Q.1** a) Explain the paradigm of web Analytics 2.0. **10**
b) Explain various web site design issues. **10**
- Q.2** 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**
- Q.3** a) Explain the semantic web stack. **10**
b) Describe SOAP protocol and the message structure briefly. **10**
- Q.4** a) Design a vocabulary for describing books and communicating about them with other people. Model the vocabulary by defining suitable classes and properties, and create a conceptual model. Then write sample statements in RDF. **10**
b) Write an ontology about geography: cities, countries, capitals, borders, states, and so on. **10**
- Q.5** a) Explain A/B testing and multivariate testing for testing websites. **10**
b) Explain any open source framework for rich internet applications. **10**
- Q.6** 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**
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Q.P.Code: 017011

(3 Hours)

Total Marks: 80

Instructions: - 1) Question No 1 is compulsory; solve any 3 questions from remaining 5 questions.
2) Assume suitable data wherever necessary.
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 and how? Give a liable framework for management of risk. (10)
- b) Discuss briefly the stages of an attack on IT infrastructure. List and explain some of the tools that can be used at each stage. (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)? Compare with Issue Specific Security Policy SysSP. (10)
- Q 3) a) Discuss some port scanning methods used by attackers and security consultants and list some tools to perform the same. (10)
- b) Discuss systems criticality matrix and Information criticality matrix for an organization dealing with insurance policy online. (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)
- b) Explain what is Information planning and Governance. What are Information policy standards? (10)
- Q 6) a) What are the contents of a good report? What are post assessment activities. (10)
- b) List the different categories of threats to information security and elaborate on any three. (10)

Please check whether you have got the right question paper

- N.B.:** (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**.

- Qu-1 a) Discuss the performance of Iterative Deepening Depth First Search. 05
b) List and explain the best suited problem characteristics 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 Robot Mail & Parcel sorting? Justify your choice of agent. 10
b) Explain Error Back propagation algorithm in detail. 10
- 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 learning, training and testing in detail. 10
- Qu-4 a) Explain working Support Vector Machine with suitable example. 10
b) Consider the following rule based system with 10
Rules:
R1: IF hot AND smoky THEN ADD fire
R2: IF alarm_beeeps 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
Facts:
F1: alarm_beeeps
F2: hot
F3: dry
Apply forward chaining algorithm and backward chaining algorithm to solve the problem.
- Qu-5 a) Explain Logistic Regression with suitable example. 10
b) Explain Naive Bayes classifier with suitable example. 10
- Qu-6 Write short note on any **FOUR** 20
a) Perceptron learning rule.
b) Partially Observable States.
c) Propositional logic
d) Local beam search
e) Applications of AI

(3 Hours)

Total Marks: 80

Instructions: - 1) Question No 1 is compulsory; solve any 3 questions from remaining 5 questions.
2) Assume suitable data wherever necessary.
3) Figures to the right indicate full marks.

- Q 1 a) Explain cryptographic applications. (05)
b) Explain Internet of Things- driver for digital business. (05)
c) Explain HTTP (05)
d) Explain SSL. (05)
- Q 2) a) Explain Different types of cryptography with suitable example. (10)
b) Explain opportunities and challenges in digital business with current status of digital business. (10)
- Q 3) a) Explain E-Supply chain with suitable example. (10)
b) Explain ERP with its use as backbone in E-Commerce. (10)
- Q4) a) Explain general template for business plan preparation. (10)
b) Explain various drivers in digital business. (10)
- Q 5) a) Explain selling and buying in private e-markets with respect to business to business E-Commerce. (10)
b) Explain Digital signatures and certificates. (10)
- Q 6) Write short notes on (Any two). (20)
- i) Physical and digital economy
ii) Firewall
iii) E-Business strategy.

Q.P.Code:18440

(3 Hours)

Total Marks: 80

Instructions: - 1) Question No 1 is compulsory; solve any 3 questions from remaining 5 questions.

2) Assume suitable data wherever necessary.

3) Figures to the right indicate full marks.

- Q 1 a) Explain cryptographic applications. (05)
b) Explain Internet of Things- driver for digital business. (05)
c) Explain HTTP (05)
d) Explain SSL. (05)
- Q 2) a) Explain Different types of cryptography with suitable example. (10)
b) Explain opportunities and challenges in digital business with current status of digital business. (10)
- Q 3) a) Explain E-Supply chain with suitable example. (10)
b) Explain ERP with its use as backbone in E-Commerce. (10)
- Q4) a) Explain general template for business plan preparation. (10)
b) Explain various drivers in digital business. (10)
- Q 5) a) Explain selling and buying in private e-markets with respect to business to business E-Commerce. (10)
b) Explain Digital signatures and certificates. (10)
- Q 6) Write short notes on (Any two). (20)
- i) Physical and digital economy
ii) Firewall
iii) E-Business strategy.
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