R15

Code: 5P2B43

M.C.A. IV Semester Regular Examinations May 2017
Advanced Java for Web Technologies

Max. Marks: 60   Time: 3 Hours
Answer *all five* units by choosing one question from each unit (5 x 12 = 60Marks)
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UNIT–I

1. a) Define HTML. Explain about all the Form tags with a Registration Form example.   6M
    b) What is the purpose of CSS? Given an example for z-index.   6M

OR

2. a) How to declare functions in java script? Explain with an example.   6M
    b) Describe the properties and methods of String and Math object.   6M

UNIT–II

3. a) Discuss about form events in java script.   6M
    b) Define event bubbling. Explain the event bubbling concept with an example.   6M

OR

4. a) Differentiate between DTD and Valid XML documents.   6M
    b) Differentiate between DOM parser and SAX parser.   6M

UNIT–III

5. a) Distinguish between Servlets and JSPs.   6M
    b) Explain Servlet life cycle with neat sketch and discuss life – cycle methods.   6M

OR

6. a) What is Deployment descriptor? Give an example.   6M
    b) Briefly explain the steps to write and execute a servlet program.   6M

UNIT–IV

7. a) What are the implicit objects in JSP and give out differences between them with
        suitable examples.   6M
    b) Write a program to read and set cookies in JSP   6M

OR

8. a) Explain about exception handling in JSP with an example.   6M
    b) List out all properties of java bean. Explain any two of them with suitable examples.   6M

UNIT–V

9. a) What are the steps involved in JDBC Programming? Explain in detail.   6M
    b) Discuss the classes and methods in javax.sql.* package.   6M

OR

10. a) Differentiate between Data tier, Service tier and Presentation tier.   6M
    b) Write a short notes on deploying Java Beans from JSP Page.   6M

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M.C.A. IV Semester Regular Examinations May 2017
Cloud Computing

Max. Marks: 60   Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 12 = 60Marks)

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UNIT–I

1. a) What is meant by Cloud Computing? List and explain the types of cloud computing.   8M

 b) Discuss the merits and demerits of cloud computing.   4M

OR

2. a) Write a note on Infrastructure as a service.   4M

 b) Describe the feature perspective and developments of cloud computing.   8M

UNIT–II

3. a) Explain the Collaborating on Financial Statements   6M

 b) Briefly explain the collaborating on group projects and events   6M

OR

4.   Write a short notes on the following
      a) Collaborating on Budgets   4M
      b) Managing Schedules   4M
      c) Managing Projects   4M

UNIT–III

5. a) Discuss the collaborating on project management   6M

 b) Write the Understanding Contact Management and CRM   6M

OR

6. a) Describe the spreadsheets and databases.   6M

 b) Briefly explain the Exploring Project Management Application   6M

UNIT–IV

7. a) Illustrate the collaborating via blogs and wikis.   6M

 b) Give a brief note on huddle and nexo   6M

OR

8. a) Write a short note on Evaluating web mail services   6M

 b) Describe the Collaborating via Social Networks and Groupware.   6M

UNIT–V

9. a) Discuss the Evaluating Online File-Storage and -Sharing Services.   6M

 b) Explain the Exploring Photo-Sharing Communities   6M

OR

10.   Briefly explain the following terms
      a) Picnik   4M
      b) FotoFlexer   4M
      c) Adobe Photoshop Express   4M

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Code: 4P2B4D

M.C.A. IV Semester Supplementary Examinations May 2017
Distributed Data bases
Max. Marks: 60   Time: 3 Hours
Answer *all five* units by choosing one question from each unit (5 x 12 = 60Marks)
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UNIT–I

1. a) Write and explain the characteristics of Distributed Databases   6M

    b) Give brief description about advantages and disadvantages of using Distributed Databases   6M

OR

2. With the help of a neat sketch explain the architecture of a typical distributed database system   12M

UNIT–II

3. Write and explain the various levels that are present in distributed transparency   12M

OR

4. a) With the help of a suitable example explain the location transparency for update operation   6M

    b) Write and explain the objectives for the design of a typical data distribution   6M

UNIT–III

5. Why we are using two – phase commitment protocol? Explain the working of same   12M

OR

6. a) Discuss in detail about the problems involved in query optimization   6M

    b) Write short notes on how to lock the centralized databases   6M

UNIT–IV

7. a) Write about the timestamp method for conservative mechanism   6M

    b) Explain the role of reliability with respect to distributed databases   6M

OR

8. What is a deadlock? When it occurs? Explain deadlock detection by using distributed databases and hierarchical controllers   12M

UNIT–V

9. a) With the help of a neat sketch explain the function shipping   6M

    b) Write short notes on distribution of catalogs   6M

OR

10. a) Compare the operation modes of CICS with ISC   6M

    b) Give brief description about object naming and catalog management with respect to site autonomy   6M

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M.C.A. IV Semester Regular Examinations May 2017
Data ware Housing and Data Mining
Max. Marks: 60   Time: 3 Hours
Answer *all five* units by choosing one question from each unit (5 x 12 = 60Marks)
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UNIT–I

1.   How does a data warehouse handle multi-dimensional data? Explain the data structures and schema that support multi-dimensional data with an example?   12M

OR

2.   a)   Draw and explain the architecture of a typical data mining system?   6M

   b)   Discuss the major issues in data mining system?   6M

UNIT–II

3.   Explain the different methods for data cleaning and data integration?   12M

OR

4.   Explain the various methods for concept hierarchy generation for numerical data? Generate a concept hierarchy using 3-4-5 rule with an example?   12M

UNIT–III

5.   Explain the various techniques to improve the efficiency of Apriori based mining?   12M

OR

6.   Define precision, recall and F-measure? Write a note on various criteria for mining multilevel association rules?   12M

UNIT–IV

7.   Explain different distance matrices used in clustering data points with ordinal, nominal, Boolean and mixed value attributes? List the measures used to evaluate the quality of clusters?   12M

OR

8.   Write a note on Bayes theorem? Explain Naive Bayesian classification with suitable example?   12M

UNIT–V

9.   What is spatial data mining? Explain the mining methods used in spatial data bases?   12M

OR

10.   a)   Discuss the applications of data mining in telecom industry?   6M

   b)   Describe the data mining functionalities of DB miner?   6M

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M.C.A. IV Semester Regular Examinations May 2017
Data ware Housing and Data Mining
Max. Marks: 60   Time: 3 Hours
Answer *all five* units by choosing one question from each unit (5 x 12 = 60Marks)
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UNIT–I

1. a) Discuss in detail the various steps in knowledge discovery in data bases?   6M

    b) Explain different functionalities in data mining?   6M

OR

2. Describe the architecture of data warehouse and its implementation?   12M

UNIT–II

3. Explain the various data reduction techniques in the preprocessing step of data mining?   12M

OR

4. Explain Attribute Oriented Induction (AOI) algorithm for data characterization with an example?   12M

UNIT–III

5. Write the various criteria for frequent pattern mining? Write Apriori algorithm for finding frequent item sets using candidate generation with an example?   12M

OR

6. Explain FP-growth algorithm for discovering frequent item sets without candidate generation?   12M

UNIT–IV

7. Explain k-means and k-medoids clustering algorithms with suitable examples?   12M

OR

8. What is classification? Write an algorithm for constructing a decision tree from training samples?   12M

UNIT–V

9. What is web mining? Explain the various types of web mining?   12M

OR

10. What is text mining? What are the various dimensionality Reduction techniques used in text mining?   12M

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Code: 5P2B41

M.C.A. IV Semester Regular Examinations May 2017
Software Engineering

Max. Marks: 60   Time: 3 Hours
Answer *all five* units by choosing one question from each unit (5 x 12 = 60Marks)
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UNIT–I

1. a) Describe briefly the Capability maturity model integration (CMMI)?   8M
   b) Write a note on Software myths?   4M

OR

2. a) Describe briefly the Evolutionary process models with neat sketches?   8M
   b) Write brief note on Functional and Non-functional requirements?   4M

UNIT–II

3. Explain the Requirements engineering process with a neat sketch and describe each stage in the Requirements engineering process?   12M

OR

4. a) Describe briefly the Design concepts?   6M
   b) Write a note on Architectural styles and patterns?   6M

UNIT–III

5. a) Explain briefly An Object –oriented design process with an example?   8M
   b) What are the Golden rules for performing user interface design?   4M

OR

6. a) Explain briefly White box and Black box testing?   8M
   b) Write a note on Metrics for Analysis model?   4M

UNIT–IV

7. a) Describe briefly the Reactive vs. Proactive Risk strategies?   6M
   b) Write a brief note on Risk identification and Risk refinement?   6M

OR

8. a) Explain briefly about Software Quality Assurance and Software reliability? 8M
   b) Explain briefly about ISO 9000 Quality standards?   4M

UNIT–V

9. a) Explain Project Cost Estimation Techniques.   8M
   b) Explain COCOMO model with suitable example.   4M

OR

10. Explain in detail about project management activities   12M

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Code: 5P2B42

M.C.A. IV Semester Regular Examinations May 2017

System Software

Max. Marks: 60　　　　　　　　　　　　　　　　　　　　Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 12 = 60Marks)

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UNIT–I

1. Explain the Instruction formats and addressing modes of SIC/XE machine architecture?　12M

OR

2. a) What is system software? Differentiate it from the application Software?　6M

　b) Explain with an example, simple input and output SIC/XE machine architecture?　6M

UNIT–II

3. What are the fundamental functions of any assembler? With an example explain any six assembler directive?　12M

OR

4. a) Explain the data structure used in Assembler algorithm　6M

　b) What is program relocation? Explain the problems associated with it and their solutions?　6M

UNIT–III

5. a) Explain the MASM macro preprocessor　6M

　b) Explain data structures involved in macro preprocessor algorithms　6M

OR

6. a) Explain the advantages and disadvantages of the general purpose macro preprocessor?　6M

　b) Explain the single pass macro preprocessor　6M

UNIT–IV

7. Briefly explain Bootstrap loader, with the algorithm　12M

OR

8. With diagram, Explain the how object program can be processed using linkage editor?　12M

UNIT–V

9. Define Compiler? Explain the Different phases of the compilers? With an example?　12M

OR

10. a) Explain the Parse tree? What is the Role of the grammars in Compilers?　8M

　b) What are the applications of the FSM?　4M

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