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| | Code: 4P2B41 | | | | | | | | | | | | | | | |
| | M.C.A. IV Semester Regular Examinations June 2016 | | | | | | | | | | | | | | | |
| | Software Engineering | | | | | | | | | | | | | | | |
| Max. Marks: 60 Time: 3 Hours Answer all five units by choosing one question from each unit (5 x 12 = 60Marks) | | | | | | | | | | | | | | | | |
| | ************************************** | | | | | | | | | / | | | | | | |
| | | | | | | | | ι | JNIT | -1 | | | | | | |
| | 1. a) What are the differences between generic software product development and | | | | | | | | | nd | | | | | | |
| | | | custom soft | | | • | | | | | | | | | | 8M |
| | | b) | Explain soci | o-teo | chnic | al sy | stem | l . | | | | | | | | 4M |
| | OR 2. a) Explain in detail the incremental process models. | | | | | | | | | | | | | | | |
| | 2. | a) | • | | | | | • | | s mo | dels. | | | | | 6M |
| | | b) | Explain in de | etail | the u | iser r | equi | reme | ents. | | | | | | | 6M |
| | | | | | | | | U | JNIT- | -11 | | | | | | |
| | 3. | a) | What is SRS | | | | | | • | | s of t | he S | RS? | What are | the ma | |
| | | LA | criteria for e | | • | | • | • | | | | | | | | 6M |
| | | b) | Describe va | rious | data | a mo | deis | for th | ie so OF | | e sys | stem | | | | 6M |
| | 4. | a) | Explain in de | otail [.] | the d | امدنما | n cla | 2222 | - | | in so | ftwar | ah a | sian | | 6M |
| | т. | b) | What is an a | | | • | | | | | | | | • | with it. | 6M |
| | | ~) | | | | i ai pi | | | | | | locu | | | | 0.11 |
| | UNIT-III | | | | | | | | | <u></u> | | | | | | |
| | 5. | a) b) | Explain in de | | | • | | • | | | | doo | ian | | | 6M 6M |
| | | b) | Explain in de | | abou | it use | 71 II IU | Snac | | - | sanu | ues | ign. | | | OIVI |
| | 6. | a) | Describe va | lidati | on ci | riteria | a . | | | • | | | | | | 6M |
| | 0. | ير b) | Explain how | | | | | met | hod i | s api | olied | for c | onve | entional so | ftware. | |
| | | , | | | 0 | | 0 | | NIT- | | | | | | | |
| | 7 | | Evoloin in d | otoil | ohou | t oof | huord | | | | .+ | | | | | 6M |
| | 7. | a) b) | Explain in de What is risk | | | | | | asure | enter | π. | | | | | 6M |
| | | 0) | What is lisk | 10IIII | eme | III.: L | лріа | | OF | 2 | | | | | | OW |
| | 8. | a) | What is softw | are c | uality | / con | trol a | nd wł | | | com | ooner | nts of | the cost of | quality | ? 6M |
| | | b) | Explain the | | | | | | | | - | | | | | 6M |
| | | · | | - | | | - | U | INIT- | -V | | | - | - | | |
| | 9. | a) | Explain Proj | Act (| ` oet | Ectin | natio | | | | | | | | | 6M |
| | 5. | b) | Explain CO | | | | | | • | | ole | | | | | 6M |
| | | ~) | | | C 111 | 2401 | | Janu | OF | | P10. | | | | | 0.01 |
| | 10. | | Explain brie | fly at | out | Proje | ect So | ched | | | | | | | | 12M |
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| | Hall | Ticket Number : R14 | |
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| | Coc | le: 4P2B43 | |
| | | M.C.A. IV Semester Regular Examinations July 2016 | |
| | | Advanced Java for Web Technologies | |
| | | Max. Marks: 60 Time: 3 Hours nswer all five units by choosing one question from each unit (5 x 12 = 60Marks) | |
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| | | UNIT–I | |
| 1. | a) | What is HTML? Explain the syntax and use of link, image and table tags with an example. | 6M |
| | b) | Explain about different CSS properties. Create a simple web page which displays | |
| | | some text with an image as it's background which is tiled in x-direction. | 6M |
| | | OR | |
| 2. | a) | Briefly discuss about the control structures in Java script with suitable examples. | 6M |
| | b) | Write a java script program to find the second largest number, when a user gives three | GM |
| | | integer numbers are input. | 6M |
| _ | | UNIT-II | |
| 3. | a) | Explain how to declare global and functions in java script with suitable example. | 6M |
| | b) | List out the properties and methods of String and Date object in java script. | 6M |
| ٨ | c) | OR What is a Valid XML document? Describe the steps to create a Valid XML file with an example. | сM |
| 4. | a) b) | | 6M 6M |
| | b) | Define XSLT. Explain about XSL document with an example. | OIVI |
| | | UNIT–III | |
| 5. | a) | Define servlets. Describe the advantages of servlets over CGI. | 6M |
| | b) | What is IIS? Explain the procedure for installation and state it's purpose with an example. | 6M |
| ~ | , | OR | |
| 6. | a) | Write a program that uses cookies to count and store the number of times a user has visited your servlet. | 6M |
| | b) | What are the various ways for achieving Session Tracking? How do you implement | OIVI |
| | 0) | using Servlets? | 6M |
| | | UNIT-IV | |
| 7. | a) | Explain about the architecture of Java Server Pages (JSP) and its applications in detail. | 6M |
| | , b) | Explain JSP life cycle with neat sketch and discuss life – cycle methods. | 6M |
| | · | OR | |
| 8. | a) | What are the implicit objects in JSP? Explain each one of them with suitable example. | 6M |
| | b) | Why java bean is necessary? Give reasons. | 6M |
| | | UNIT-V | |
| 9. | a) | Define Database. Explain about types of JDBC drivers. | 6M |
| 0. | b) | Discuss the classes and methods in javax.sql.* package. | 6M |
| | ~) | OR | 0.01 |
| 0. | a) | With a neat diagram discuss about JDBC architecture. | 6M |
| |) b) | How database connectivity is achieved using JSP? Explain with an example. | 6M |
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| | | Page 1 of 1 | |

| Hall | Ticke | et Number : | | | | | | | | | | |
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| Coue | Code: 4P2B4A M.C.A. IV Semester Regular Examinations June/July 2016 | | | | | | | | | | | |
| | Cloud Computing | | | | | | | | | | | |
| | Max. Marks: 60 Time: 3 Hours | | | | | | | | | | | |
| An | iswe | r all five units by choosing one question from each unit (5 x 12 = 60Marks) | | | | | | | | | | |
| | | UNIT–I | | | | | | | | | | |
| 1. | a) | Who benefits from Cloud Computing? Discuss in detail | 6M | | | | | | | | | |
| | b) | List and explain the applications of Cloud Computing. | 6M | | | | | | | | | |
| | | OR | 8M | | | | | | | | | |
| 2. | a) Þ | 1 0 | | | | | | | | | | |
| b) Discuss the Pros and Cons of Cloud services Development. | | | | | | | | | | | | |
| _ | UNIT–II | | | | | | | | | | | |
| 3. | a) | Describe the cloud computing for community. | 6M | | | | | | | | | |
| | b) | Briefly explain the collaboration on schedules. | 6M | | | | | | | | | |
| 4. | a) | OR Discuss the Collaborating on School Projects. | 4M | | | | | | | | | |
| | b) | Illustrate the cloud computing for corporation and mapping scheduling & | | | | | | | | | | |
| | , | managing projects | 8M | | | | | | | | | |
| | | UNIT–III | | | | | | | | | | |
| 5. | | Write a short notes on the following: | | | | | | | | | | |
| | | a) AOL Calendar | 4M | | | | | | | | | |
| | | b) Calendar Hub | 4M | | | | | | | | | |
| | | c) Hunt calendars | 4M | | | | | | | | | |
| 6. | a) | OR Discuss the exploring Online Scheduling Applications. | 6M | | | | | | | | | |
| b) Write the benefits of Web-Based Word Processors. | | | | | | | | | | | | |
| | , | UNIT–IV | | | | | | | | | | |
| 7. | | Explain the following terms | | | | | | | | | | |
| | | a) Google Talk | 4M | | | | | | | | | |
| | | b) ICQ | 4M | | | | | | | | | |
| | | c) Yahoo! Messenger | 4M | | | | | | | | | |
| | | OR | | | | | | | | | | |
| 8. | a) Þ | Describe the Other Web Mail Services. | 6M | | | | | | | | | |
| | b) | Illustrate the evaluating Instant Messaging Services | 6M | | | | | | | | | |
| | | UNIT-V | 6M | | | | | | | | | |
| 9. | a) | What is Cloud Storage? Why Use Cloud Storage? | | | | | | | | | | |
| | b) | Discuss the evaluating Web-Based Desktops | 6M | | | | | | | | | |
| 10. | a) | OR Write the Risks of Storing Data in the Clouds. | 6M | | | | | | | | | |
| 10. | a) b) | Explain the exploring on line book marking services | 6M | | | | | | | | | |
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| Hall Ti | cket Number : | 14 | | | | | | |
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| | : 4P2B4D | 17 | | | | | | |
| | M.C.A. IV Semester Regular Examinations July 2016 | | | | | | | |
| | Distributed Databases | | | | | | | |
| | ax. Marks: 60 Time: 3 Hours wer all five units by choosing one question from each unit (5 x 12 = 60Marks | ١ | | | | | | |
| 7113 | |) | | | | | | |
| | UNIT–I | | | | | | | |
| 1. | Describe the features of Distributed Databases and Centralized Databases. | | | | | | | |
| | Also Compare the two. | 12M | | | | | | |
| 0 | OR | 4014 | | | | | | |
| 2. | Explain the Distributed Database Access Primitives. | 12M | | | | | | |
| | UNIT-II | | | | | | | |
| 0 | | 4014 | | | | | | |
| 3. | Explain about a Framework for Distributed Database Design. OR | 12M | | | | | | |
| 4. | Describe the Integrity Constraints in Distributed Databases. | 12M | | | | | | |
| | | | | | | | | |
| | UNIT–III | | | | | | | |
| 5. | Describe the Framework for Query Optimization. | 12M | | | | | | |
| | OR | | | | | | | |
| 6. | Explain the Concurrency Control for Distributed Transactions. | 12M | | | | | | |
| | | | | | | | | |
| | UNIT–IV | | | | | | | |
| 7. | Describe about Concurrency Control Based on Timestamps. | 12M | | | | | | |
| | OR | | | | | | | |
| 8. | What are the basic concepts of Reliability? Explain about Non-blocking Commit Protocols. | 12M | | | | | | |
| | | | | | | | | |
| | UNIT–V | | | | | | | |
| 9. | Describe about Catalog Management in Distributed Databases. | 12M | | | | | | |
| | OR | | | | | | | |
| 10. | Explain Authorization and Protection mechanisms in Distributed Databases. | 12M | | | | | | |
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| Hall Ticket Number : | R14 | | | | | | | |
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| Code: 4P2B44 | | | | | | | | |
| M.C.A. IV Semester Regular Examinations July 2016 | | | | | | | | |
| 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 = | | | | | | | | |
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| UNIT–I | | | | | | | | |
| 1. a) Describe the major steps in the Knowledge discovery process. | 5M | | | | | | | |
| b) What is data mining? Describe the architecture of a data mining syst | em. 7M | | | | | | | |
| OR | | | | | | | | |
| 2. Categorize data mining systems according to various criteria | 12M | | | | | | | |
| | | | | | | | | |
| UNIT–II | | | | | | | | |
| 3. Discuss the basic methods of data cleaning | 12M | | | | | | | |
| OR | | | | | | | | |
| 4. Discuss a few data summarization techniques. | 12M | | | | | | | |
| | | | | | | | | |
| 5. Discuss in detail Apriori algorithm for generation of frequent item se | ts 12M | | | | | | | |
| or States in detail Aprior algorithm for generation of nequencitien se | | | | | | | | |
| 6. Discuss in detail mining multi-level association rules | 12M | | | | | | | |
| | | | | | | | | |
| UNIT–IV | | | | | | | | |
| 7. Explain decision tree induction method for classification | | | | | | | | |
| OR | | | | | | | | |
| 8. a) Discuss the typical requirements of clustering methods | 8M | | | | | | | |
| b) Write about categorization of different clustering methods | 4M | | | | | | | |
| | | | | | | | | |
| UNIT–V | | | | | | | | |
| 9. Write about different applications and trends in data mining | 12M | | | | | | | |
| OR | | | | | | | | |
| 10. Discuss in detail time series data mining | 12M | | | | | | | |
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| Hall ⁻ | Ticke | et Number : R14 | , | | | | | | | | |
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| Code | : 4P2 | 2842 | | | | | | | | | |
| | | M.C.A. IV Semester Regular Examinations June/July 2016 | | | | | | | | | |
| | | System Software | | | | | | | | | |
| | | Marks: 60 Time: 3 Hours r all five units by choosing one question from each unit (5 x 12 = 60Marks) ******** | | | | | | | | | |
| | | UNIT–I | | | | | | | | | |
| 1. | a) | What is System Software? Explain the system Software Architecture? | 8M | | | | | | | | |
| | b) | Write a Short note on | | | | | | | | | |
| | | i) Resource Allocation | | | | | | | | | |
| ii) User Interface | | | | | | | | | | | |
| | | OR | | | | | | | | | |
| 2. | a) | Define Addressing modes? Explain the different types of addressing modes? | 6M | | | | | | | | |
| | b) | Write a program in SIC and SIC/XE to copy character string 'system software' | 6M | | | | | | | | |
| | | to another character string? | OIVI | | | | | | | | |
| | | | | | | | | | | | |
| | | UNIT–II | | | | | | | | | |
| 3. | | Explain the how multi pass assembler handles following forward reference | | | | | | | | | |
| | | 1 HALFSZ EQU MAXLEN/2 | | | | | | | | | |
| | | 2 MAXLEN EQU BUFEND-BUFFER | | | | | | | | | |
| | | 3 PREVBT EQU BUFFER – 1 | | | | | | | | | |
| | | 4 BUFFER RESB 4096 5 BUFEND EQU * | | | | | | | | | |
| | | | | | | | | | | | |
| | | Assume that, when assembler goes line 4, location counter contains 1.34(hex) 1 OR | 12M | | | | | | | | |
| 4. | | Generate the complete object program for the following assembly level | | | | | | | | | |
| | | program with symbol table. Assume | | | | | | | | | |
| | | CLEAR = B4 , LDT=74, TD=EO, JEQ=30, TIXR=B8, JLT=38 , RSUB=4C, | | | | | | | | | |
| | | LDCH=50, WD=DC, X=1, T=5 | | | | | | | | | |
| | | WRREC START 105D | | | | | | | | | |
| | | CLEAR X | | | | | | | | | |
| | | LDT LENGTH | | | | | | | | | |
| | | WLOOP TD OUTPUT | | | | | | | | | |
| | | | | | | | | | | | |
| | | LDCX BUFFER,X WD OUTPUT | | | | | | | | | |
| | | TIXR T | | | | | | | | | |
| | | JLT WLOOP | | | | | | | | | |
| | | RSUB | | | | | | | | | |
| | | OUTPUT BYTE X '05' | | | | | | | | | |
| | | BUFFER RESB 400 | | | | | | | | | |
| | | LENGTH RESB 2 | | | | | | | | | |
| | | END WRREC 1 | 12M | | | | | | | | |

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Code: 4P2B42

UNIT-III

| 5. | a) | Define Macro preprocessor? Explain the design of the Macro preprocessor | 8M |
|-----|----|---|-----|
| | b) | Write an algorithm for one pass macro preprocessor | 4M |
| | | OR | |
| 6. | | Explain the Single pass & Two pass Macro Assembler | 12M |
| | | UNIT–IV | |
| 7. | a) | What is Bootstrap loader? Explain the Basic loader functions | 6M |
| | b) | Define the Absolute loader? Write an algorithm for absolute loader and explain? | 6M |
| | | OR | |
| 8. | | Explain the Machine dependent Loader functions? | 12M |
| | | UNIT–V | |
| 9. | a) | Explain the Parse tree? What is the Role of the grammars in Compilers? | 8M |
| | b) | What are the applications of the FSM? | 4M |
| | | OR | |
| 10. | | Define Compiler? Explain the Different phases of the compilers? | 12M |
