QP Code : **6284** Dt : 19/11/15

[Total Marks : 80]

(3 hours)

N.B. (1) Question No. 1 is compulsory.

   (2) Write any **three** questions out of remaining.

   (3) Assume suitable data if required.

1. (a) Is agile process suitable for large scale projects? Mention few issues. 5
   (b) Explain process framework. 5
   (c) Mention SQA activities. 5
   (d) Explain CMM level 4 and level 5 5

2. (a) Mention the reasons for project delay. What are the risks associated with project delay? 10

   (b) Estimate the effort using function point method to design a user interface for the public to report about damaged pothole. Assume suitable input complexity and justify your assumptions. 10

3. (a) Explain in detail Spiral model and compare it with component model. 10
   (b) Explain architectural design for e-Commerce System. 10

4. (a). Prepare SRS for the Course Management System. 10
   (b) List down the activities required for scheduling and tracking software projects 10

5. (a) Describe in detail white box techniques. 10
   (b) Draw use case, sequence diagram (withdrawal) for ATM banking system. 10

6. (a) In a car service station, complaints are taken and an estimate of the work is given immediately. Resources are assigned to the job. Once repaired a bill is prepared for actual cost. Prepare a DFD up to level 2 and make a sample entry in data dictionary for each element. 10
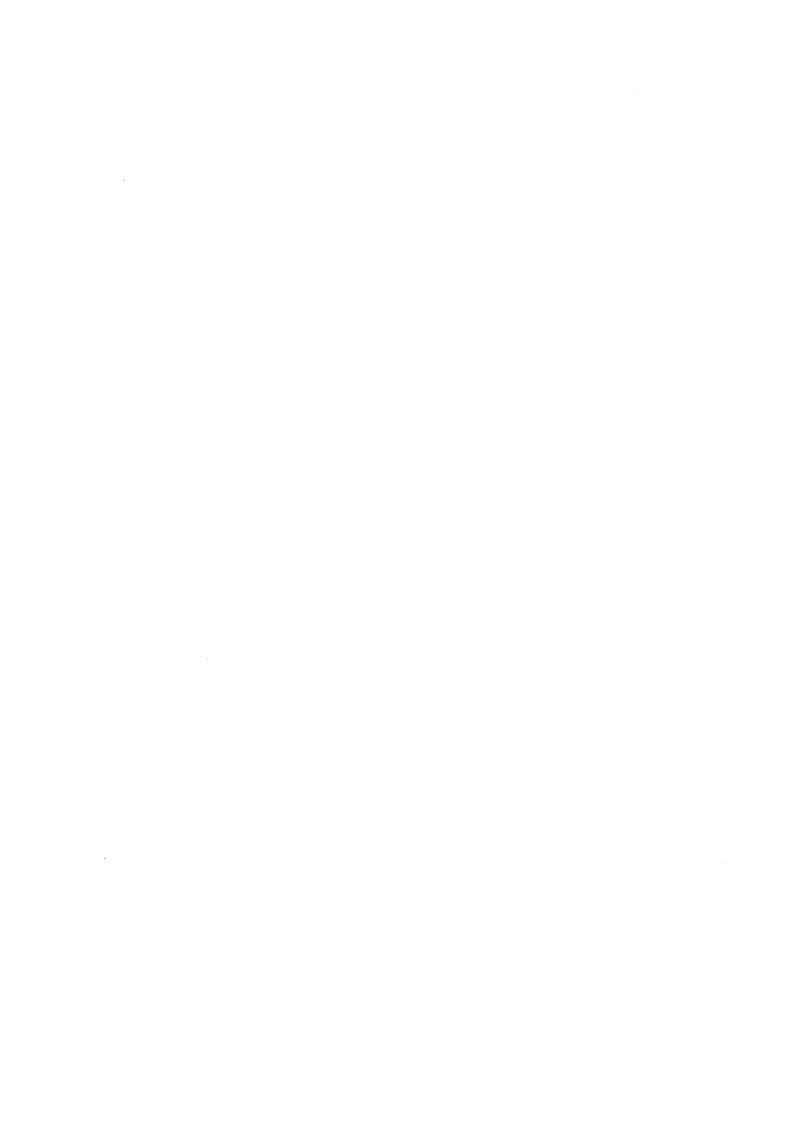   (b) Explain how are change control and version control are carried out 10

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MD-Con. 7335-15.

Q.P. Code : 6411

REVISED COURSE
(3 HOURS)   [TOTAL MARKS:80]

N.B. 1.Question 1 is compulsory
     2.Attempt any three question out of the remaining five question.

Q.1(a) Define Buisness intelligence and decision support systems with
      examples   10
    (b) Explain Data mining as a step in KDD. Give the architecture of
      typical Data Mining system.   10

Q.2 (a) Explain BIRCH algorithm with example   10
    (b) Explain different visualization techniques that can be used in data
      mining   10

Q.3 (a) Explain Multilevel association rules with suitable examples   10
    (b) Define classification , issues of classification and explain ID3
      classification with example   10

Q.4(a) Why is Data Preprocessing required? Explain the different steps
      involved in data preprocessing   10
    (b) What is text mining ? Explain different approaches to text mining 10

Q.5 (a) Explain Buisness Intelligence Issues   10
    (b) What is clustering? Explain k- means clustering algorithm. Suppose
      the data for clustering -   {2,4,10,12,3,20,11,25}
         Consider k=2, cluster the given data using above algorithm.   10

Q.6(a) Explain sequence mining in Transactional databases   10
    (b) Design a BI system for fraud detection by describing all the steps
      from Data Collection to Decision Making   10

MD-Con. 10384-15.

QP Code : 6326

(3 Hours)   **[Total Marks : 80**

N.B.   (1) Question number 1 is compulsory.
        (2) Solve any 3 from remaining.
        (3) Assume suitable data where ever necessary.

Q.1. Attempt the following: 20
    a. Compare Stateful and Stateless server implementations
    b. Explain what is callback RPC
    c. What are the challenges in SOA
    d. List types of failures in message passing system and how to over come them.

Q.2.
(a) Explain key components of DCE   10
(b) What is a thread and advantages of using them. What are different models for
organizing threads   10

Q3.
(a) Define Happened-Before relationship. Explain implementation of logical clocks with an
example   10
(b) Describe .NET architecture with neat labeled diagram   10

Q4.
(a) Explain various transparencies need to achieve in Distributed system.   10
(b) Explain Distributed Approach for providing mutual exclusion   10

Q5.
(a) Explain desirable features of a good message passing system.   10
(b) How is sequential consistency model implemented if Replicated Migrating Blocks are used
in distributed system for Distributed Shared Memory   10

Q6 Write notes on following :   20
(a) CORBA Components.
(b) Components of EJB framework
(c) Explain Message Buffering in IPC
(d) Use of External Data Representation for Process Migration in Heterogeneous systems

MD-Con.8412-15.

Q.P. Code : **6450**

(3 Hours) · [Total Marks : 80

N.B. : (1) Questions No.1 is compulsory.
    (2) Attempt any three questions from remaining five questions.
    (3) Assume suitable data wherever necessary.
    (4) Figures to the right indicate full marks.

(a) Explain in detail Media Queries with an example.   10

(b) Explain in detail architecture of mashups in a JSON implementation with neat diagram.   10

(a) Explain input elements newly introduced in HTML5 with example.   10

(b) Explain in detail CSS3 Transitions with example.   10

(a) Explain in detail Query selector () with an example.   10

(b) List metadata elements used in HTML5.   10

(a) Explain the features how to increase accessibility of website to search engine.   10

(b) List the top analyzing ranking factors for SEO.   10

(a) Explain in detail search engine success factors.   10

(b) Explain CSS3 Transformations with example.   10

(a) Write short note on any four :—   20
    (i) Advanced search techniques
    (ii) SWOT
    (iii) REST
    (iv) RWD
    (v) RIA
    (vi) Fluid Layouts

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MD-Con. 11290-15.

(Time: 3 Hours) Marks: 80

Note:

1. Question No.1 is compulsory.
2. Attempt any 3 out of the remaining questions.

Q.1 (a) Consider an online Voting System. People will cast their votes through the internet. For this system identify vulnerability, threat and attack. (05)

(b) Differentiate between Multilevel and Multilateral security with the help of example. (05)

(c) Explain different types of malicious attacks. (05)

(d) Differentiate between SSL and IP Sec protocols (05)

Q.2 (a) Explain Needham Schroeder Authentication Protocol. (10)

(b) What is Digital Signature? Explain how it is created at the sender end and retrieved at receiver end. Differentiate digital signature from digital certificate. (10)

Q.3 (a) Explain non malicious program errors with the help of examples. (10)

(b) What is Digital Right management? Explain DRM in Real world. (10)

Q.4 (a) Explain the role of Firewall in securing a network. Describe different types of Firewall (10)

(b) Explain secure Email and S/MIME. (10)

Q.5 Explain the technique behind following attacks: (20)

(a) ARP spoofing

(b) Packet Sniffing

(c) Session Hijacking

(d) Cross-site request forgery

Q.6 Write Short note on: (20)

(a) Windows Vulnerabilities

(b) Access control policies

(c) Linearization attack

(d) Distributed Denial of Service attack

MD-Con. 9490 -15.