V-Ex-I-09-E-Scan-12

MCA – SEM – VI

Con. 2474-09.

Elective-II Project Management

19th May 2009

BB-9222

(3 Hours) [Total Marks : 100]

N.B. :(1) Question No. **1** is **compulsory**.
    (2) Answer any **four** questions out of remaining **six** questions.
    (3) **Figures** to the **right** indicates **marks**.

1. An Institute wants to make Alumni Website. You are involved to design the website. **20**
    You consider this as a project answer the following questions :—
    (a) Conduct the feasibility study for the project.
    (b) Define the scope of the project.
    (c) If you are a team leader what problems are you expecting to face ?
    (d) What are the essential features required for Alumni Website ?
    (e) What do you want to expect from your team members ?

2. (a) What is the purpose of project teams and discuss team development cycle ? **10**
   (b) Explain in detail various steps of feasibility study. **10**

3. (a) Describe Risk Management process and how it applies to project ? **10**
   (b) List and briefly describe the ways project may be terminated. **10**

4. (a) Explain scoring models for project selection. Discuss its advantages as **10**
    well as disadvantages.
   (b) What are the objectives of Work Breakdown Structure ? Describe the **10**
    main components of Work Breakdown Structure.

5. (a) What is TQM ? Discuss various quality costs in a Project. **10**
   (b) What factors to be taken care while doing the project documentation ? **10**

6. (a) "Negotiation is a Tool for Project Management Practice" - Discuss. **10**
   (b) Explain Critical Path with network diagram. **10**

7. Write short notes on :— **20**
    (a) Project Tender
    (b) Payback Period
    (c) Net Present Value
    (d) Linear Responsibility Chart.

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MCA SEM - VI

Wireless Technology

21th May 2009

ws April 09 147

Con. 2269-09.

(OLD COURSE)

BB-9240

(3 Hours)

[Total Marks : 100]

N.B. :— 1. Question No **1** is **compulsory**
2. Attempt **any four** form the **remaining**
3. Figures to right indicate full marks
4. Illustrate answers with sketches wherever necessary
5. Answers to sub questions should be answered together.

Q1.	(a)	Discuss the operation of cellular networks	10
	(b)	List the transmission impairments effecting the wireless transmission. Explain free space loss? Determine the free space loss at 4 GHz for the shortest path to a geo synchronous satellite.	10
Q2.	(a)	Explain the GSM network Architecture	10
	(b)	How is the security provided in the WAP using the Wireless Transport Layer Security?	10
Q3.	(a)	What is spread spectrum? Explain FHSS and DSSS	10
	(b)	Discuss the operation of Mobile IP	10
Q4.	(a)	Explain the applications of Wireless LAN	10
	(b)	Discuss the protocol architecture of Bluetooth	10
Q5.	(a)	Explain the CDMA technique using an example	10
	(b)	Explain how the capacity of a satellite is allocated using frequency division	10
Q6.	(a)	Discuss the architecture and the services provided by IEEE802.11	10
	(b)	What are convolutional codes? Describe the (2,1,3) convolutional code	10

Q7. Write short notes on any four of the following :— 20
1. Infrared LANs
2. Piconets and Scatternets
3. TDD
4. Antennas
5. Fading

MCA SEM–VI
Elective: II Customer Resource
Management

19th May 2009

V-Ex-I-09-E-Scan-30

Con. 2530-09.

BB-9219

(3 Hours)

[Total Marks : 100

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

(2) Attempt any **four** questions out of remaining **six** questions.

(3) Answers to the questions should be **grouped** and written **together.**

(4) **Figures** to the **right** Indicate **full** marks **assigned** to the questions.

1. (a)	Discuss briefly caveats of CRM implementation by giving example.	10
(b)	Explain the two dimensions to CRM-customer facing and company facing.	10
2. (a)	What is EMA and explain EMA components.	10
(b)	Explain briefly beta testing.	10
3. (a)	What is Opt-in and Opt-out ? Discuss solicited and unsolicited mail.	10
(b)	Explain the role of Sales Force Automation in CRM.	10
4. (a)	Define G_SPOT how is CRM concerned with these.	10
(b)	Explain the difference between CRM and eCRM.	10
5. (a)	What is campaign management. State various components of EMA.	10
(b)	What is customer life cycle ?	10
6. (a)	What do you understand by pipeline management ?	10
(b)	Explain briefly customer intelligence.	10
7.	Write short notes :—	20

(a) Opportunity management

(b) IVR technology

(c) Kickoff meeting

(d) Automated intelligent.

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MCA – SEM–VI

Distributing Computing

23rd May 2009

612 : G-m.

Con. 2321-09.

BB-9243

(3 Hours) [Total Marks : 100

N.B. (1) Question No. **1** is **compulsory**.
(2) Answer any **four** from remaining **six** questions.

1. (a) Explain following terms with examples :— **10**
   (i) Asynchronous Transfer Mode
   (ii) Marshalling
   (iii) LRPC
   (iv) Multidatagram messaging
   (v) Mutual Exclusion.
   (b) (i) Differentiate between synchronous and asynchronous type of communications. **5**
   (ii) Discuss relative advantages and disadvantages of preemptive and non-preemptive process migration. **5**

2. (a) Explain with diagrams how logical clocks are implemented with counters and physical clocks. **10**
   (b) Give a mechanism for consistent ordering of messages in following cases :— **10**
   (i) One-to-many communications
   (ii) many-to-one communications
   (iii) many-to-many communications.

3. (a) What is the difference between sequential consistency and release consistency ? State their relative advantages. How can sequential consistency be implemented ? **10**
   (b) Discuss the relative advantages and disadvantages of using full-file caching and block caching models for the data- caching mechanism of a distributed file system. **10**

4. (a) In a fault tolerant communication between Client-server, there is **exactly once** semantics. How will you implement exactly-once semantics in following cases :— **10**
   (i) The client-server machines are reliable but the communication links connecting them are unreliable,
   (ii) The client-server machines are unreliable but communications links are reliable,
   (iii) The client is unreliable but the server and the communication links are reliable,
   (iv) The client and links are reliable but the server is unreliable.
   (b) What is the difference between procedural call and remote procedural call ? Explain RPC model with a diagram. **10**

5. (a) What is an idempotent operation ? Which of the following operations are idempotent ? If not, give the semantics to make them idempotent :— **10**
   (i) Read _next_record (filename)
   (ii) Read_record (filename, rec_num)
   (iii) T = time(x)
   (iv) B = mean (a1, a, a3)
   (v) sqrt(144).

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Con. 2321-BB-9243-09.   2

(b) Differentiate between Stateful and Stateless servers. Explain two situations where stateless servers are useful.   **10**

6. (a) Differentiate between process and thread concepts. Give suitable examples for each one of the following :—   **10**
    (i) A process using multiple threads that are organized in the dispatcher-worker model
    (ii) A process using multiple threads in a team model
    (iii) A process using multiple threads in a pipelined model.

  (b) Why are election algorithms required ? Describe Bully algorithm in detail. Is it more efficient that the Ring algorithm ?   **10**

7. Write short notes on any **four** :—   **20**
    (a) Distributed Computing System models
    (b) File Replication
    (c) Release consistency
    (d) Name space
    (e) Mach distributed system.

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