

Monad University, Hapur

B.Tech.(CS/IT)

Semester – VII

Assignment No: 1

CODE: BTCS- (Mobile Computing)

Submission Date: 10 November 2016

Instructions:

- 1. Write the responses to the assignment in your own handwriting.**
- 2. Submit the responses to your HOD within the due date.**
- 3. Write your name, programme and enrollment number clearly at the top of the Pages.**

Question 1

- a) What is GSM? Explain the terms and their functionalities of GSM architecture.
- b) Discuss the different versions of IEEE 802.11.

Question 2

- a) What is an ad-hoc network?
- b) What are HLR and VLR?

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Assignment No: 1

CODE: BTCS- (Data Compression)

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Question 1

- a) What is data compression and why we need it? Explain compression and reconstruction with the help of block diagram.
- b) What are the measures of performance of data compression algorithm?

Question 2

- a) How modeling and coding are related? Explain with the help of examples.
- b) Explain the Huffman coding with example.

MONAD UNIVERSITY
Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245101
Tehsil Hapur (U.P), India

Course: Distributed System

Assignment No: 1

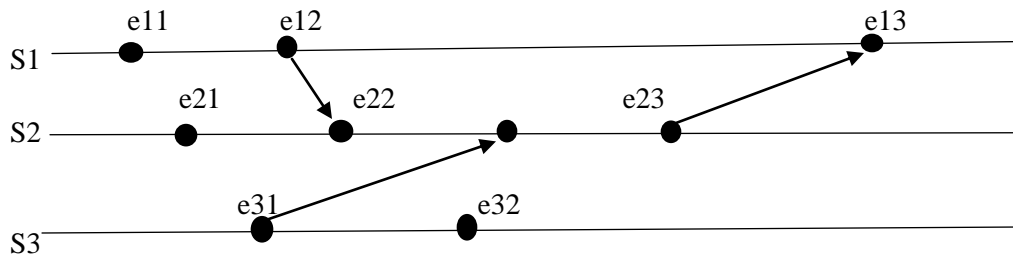
Due date of submission: 10.11.2016

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Q.1

- a) What is Distributed System? What are the various threats of Distributed System?
- b) Discuss vector clocks. Explain the implementation rules for vector clock. Give the vector time stamp of messages for the given example, where S1, S2 and S3 are sites.



Q.2

- a) Explain the Ricart-Agrawala algorithm for mutual exclusion. How many messages per critical section execution are required? (Assume there are N sites).
- b)
 - 1) Discuss performance metric for distributed mutual exclusion algorithms.
 - 2) What is Logical clock? Explain. What are the limitations of Lamport clock?

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Course: Digital Image Processing
Assignment No: 1
Due date of submission: 10.11.2016

Instructions

4. Write the responses to the assignment in your own handwriting.
5. Submit the responses to your HoD within the due date.
6. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- c) What is DIP? Explain fundamental steps in DIP. Also give its applications.
- d) Write short note on:
 - i) Digital image
 - ii) Sampling
 - iii) Quantization
 - iv) Smoothing
 - v) Sharpening
 - vi) Image restoration model

Q.2

- a)
 1. Explain types of images with example.
 2. Write short note on:
 - i) Contrast Stretching
 - ii) Histogram Specification
 - iii) Histogram Equalization
- b)
 1. What do you understand by image enhancement? Explain image enhancement in Spatial domain as well as in Frequency domain in detail.
 2. Discuss filters used in Spatial domain and Frequency domain in detail.

Class: B.Tech (CSE/IT)-7th Sem. (4th year)
Title: Software Project Management (SPM)
Assignment Number: 1
Last Dates for Submission: 10th Nov, 2016

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Question 1:

- a) Explain Waterfall model with neat and clean diagram. Discuss all the related documents developed at each of the phase of development process.
- b) What is SRS? What is the requirement of SRS report in SDLC? Explain SRS report in detail. Also, Write IEEE standard SRS report in detail.

Question 2:

- a) What do you understand by Prototype? Explain the relevance of Prototype Model in System/Software development.
- b) What is testing? Explain Alpha, Beta & Acceptance testing with an example of each.