



MONAD University
N.H. 24, Delhi Hapur Road,
Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245304,
Dist. Hapur (U.P.), India

Assignment No: 2

Programme (Branch)/Sem:.....

Course Name:-.....

Submitted by :-

Candidate's Name:.....

Enrollment No.:-

Roll No. :-

Date of Submission:-

Submitted to:-

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Programme: B.Tech (CS-VIIth Sem.)
Course Name: Digital Image Processing
Course Code: ECS-471
Assignment No: 2
Due date of submission: 23.10.2017

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 No. clearly at the top of page.

Q.1

- a) As you are aware of color Image Processing. You can explain fundamental steps of color image processing in detail. Do it.

- b) As you are aware of Morphological Image Processing. So you can Differentiate the following:
 - i. Opening and Closing
 - ii. Dilation and Erosion

Do it.

Q.2

- a) As we have discussed many Morphological Algorithms. So, you can Boundary Extraction and Region Filling algorithm in detail. Do it.

- b) Discuss the following:
 - I. Thinning
 - II. Thickening
 - III. Topological Attributes
 - IV. Graph Matching



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Programme: B.Tech (CS-VIIth Sem.)

Course Name: Data Compression

Course Code: ECS-472

Assignment No: 2

Due date of submission: 23.10.2017

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 No. clearly at the top of page.

Q.1

- a) Explain the Advantages of Vector Quantization over Scalar Quantization.
- b) Write short note on:
 - I. Adaptive quantization,
 - II. Non uniform quantization.

Q.2

- a) Explain Dynamic Markov Compression technique in detail.
- b) As you are aware of Image Compression. You can explain image compression for Graphics Interchange Format (GIF) in detail. Do it.



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Programme: B.Tech (CS-VIIth Sem.)
Course Name: Software Project Management
Course Code: ECS-473-1
Assignment No: 2
Due date of submission: 23.10.2017

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 No. clearly at the top of page.

Q.1

- a) As you know that the estimation is an important part in SDLC, now, state and explain what do you understand by Software Project Estimation. Also, Discuss Empirical & Heuristic estimation techniques in detail.
- b) Why does maintenance phase is so much important factor in SDLC? Explain Corrective, Adaptive & perfective maintenance in detail.

Q.2

- a) Write a note on COCOMO Model. Also explain Organic, Semi-detached & Embedded systems.
- b) Assume that the size of an organic type software product has been estimated to be 32,000 lines of source code .Assume that the average salary of software engineers be Rs. 15,000/- per month. Determine the effort required to develop the software product and the nominal development time.



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Programme: B.Tech (CS-VIIth Sem.)
Course Name: Distributed System
Course Code: ECS-474-3 Assignment No: 2
Due date of submission: 23.10.2017

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 No. clearly at the top of page.

Q.1

- a) As you are aware of agreement problems. So, explain the Byzantine agreement problem, Consensus problem and Interactive consistency problem in detail.
- b) As you are aware of communication between distributed objects. So, you can explain remote procedure call, events and notifications. Do it.

Q.2

- a) As you are aware of concurrency control. So, explain concurrency control in Distributed systems.
- b) As you know about routing. So, you can explain destination based routing algorithm in detail. Do it.



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Programme: B.Tech (CS-VIIth Sem.)
Course Name: Mobile Computing
Course Code: ECS-475-1
Assignment No: 2
Due date of submission: 23.10.2017

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 No. clearly at the top of page.

Q.1

- (a) As you know Mobile. Can you explain the term “Mobile IP” with its use? Go ahead.
- (b) Discuss the term “Route Maintenance” and “Routing error”.

Q.2

- (a) What do you mean by “Mobile Transaction Processing”?
- (b) What is Ad-hoc Network?? Discuss the Problems with Message Routing in Wireless Ad-hoc Mobile Networks.