



Assignment No: 2

Programme: _____

Semester: _____

Submitted by:-

Student Name :	
Enrollment No :	
Roll No. :	
Course Name:	
Date of Submission:	

Submitted to:-

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Programme: B.Sc CS IV Sem

Course Name: ANALYSIS OF ALGORITHM AND DATA STRUCTURES

Course Code: BCS-221

Assignment No: 2

Due date of submission: 20.04.2018

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 the concept of pointers. So explain the creation of singly linked list with the help of an example.
- b) As we discussed different operation perform on stack. So, WAP to insert and delete an element in a stack using array.

Q.2

- a) Find out the complexity of Merge sort algorithm from recurrence relation. Solve by method of substitution
- b) What is binary tree? Explain the different operation perform on binary tree.



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Programme: B.Sc CS IV Sem

Course Name: COMPUTER ARCHITECTURE & ASSEMBLY LANGUAGE

Course Code: BCA-221

Assignment No: 2

Due date of submission: 20.04.2018

Instructions

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Q.1

- (a) What is Stack? Explain the PUSH and POP operations used with it
- (b) Explain the “Addressing Modes” in detail.

Q.2

- (a) What is assembly language? Write all the rules of assembly language.
- (b) Explain the following:
 - (i) Direct memory Address (DMA)
 - (ii) Microprocessor



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Programme: B.Sc CS IV Sem

Course Name: CRYPTOGRAPHY & NETWORK SECURITY

Course Code: BCA-225-1

Assignment No: 2

Due date of submission: 20.04.2018

Instructions

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Q.1

(a) As you know in network security there are many protocols for secure communication. So explain Secure Socket Layer in brief.

(b) As you aware of the concept of symmetric key cryptography encryption. So, explain the DES algorithm in brief.

Q.2

(a) As we have already discussed the algorithm of RSA in the class. So solve the given question using RSA.

$P=17$, $q=9$, $e=7$ and $d=21$.

Calculate the public key and private key. And show encryption and decryption for plain text=5.

(b) As you know the concept of hashing? So, explain the concept of SHA.



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Programme: B.Sc CS IV Sem

Course Name: COMPUTER GRAPHICS & MULTIMEDIA AND APPLICATIONS

Course Code: BCA-222

Assignment No: 2

Due date of submission: 20.04.2018

Instructions

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Q.1

(a) As you are aware of transformations. So, you can explain three dimensional scaling, translation and reflection transformations in detail. Do it.

(b) As you are aware of clipping. So, you can explain polygon clipping with suitable example. Do it.

Q.2

(a) As you are aware of viewing transformation. So, you can explain it with suitable diagram. Do it.

(b) As you are aware of animation. So, you can explain the types of animation. Do it.



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Programme: B.Sc CS IV Sem
Course Name: JAVA PROGRAMMING
Course Code: BCA-223
Assignment No: 2
Due date of submission: 20.04.2018

Instructions

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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 with example exception handling in java.
- (b) Explain the inheritance with example in java.

Q.2

- (a) Explain abstract class and method with example.
- (b) Explain package with example.