



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

Assignment No: 1

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

Course Name:-.....

Submitted by :-

Candidate's Name:.....

Enrollment No.:-

Roll No. :-

Date of Submission:-

Submitted to:-

.....



**MONAD
UNIVERSITY**
Established by UP State Govt. Act 23 of 2010
& U/S 2 (f) of U.G.C. Act 1956

Programme: B.Tech (CSE-Vth Sem.)

Course Name: Operating System

Course Code: BTCS-311

Assignment No: 1

Due date of submission: 11.09.2017

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.

Question No. 1.

a) As you know about Operating System. Explain OS & its various services in detail. Also give five example of Operating System.

b) As you are aware of Kernel. You will learn more, if you attempt to explain Monolithic and Microkernel with the help of their architecture. Do it.

Question No. 2.

a) You are aware of context of a process. So you can discuss all the attributes of Process Control Block (PCB) in detail. Do it.

b) Explain the following Operating System:

- i) Batch Processing Operating System
- ii) Multi-programming Operating System
- iii) Multi-tasking Operating System
- iv) Real Time Operating System (RTOS)



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Programme: B.Tech (CSE-Vth Sem.)
Course Name: Design and Analysis of Algorithms
Course Code: BTCS-312
Assignment No: 1
Due date of submission: 11.09.2017

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.

Question No. 1.

a) As you are aware of algorithms. You can explain the properties of an algorithm and the different techniques to design algorithm. Do it.

b) As you are aware of analysis of algorithms. You can explain the asymptotic notations (Big O, Big Ω and Big θ) in detail with example of each. Do it.

Question No. 2.

a) As you are aware of sorting. You will learn more, if you explain Merge sort with example. Go ahead.

b) As you are aware of Heap. You can explain Heap sort algorithm in detail with the help of an example. Do it.



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Programme: B.Tech (CSE-Vth Sem.)

Course Name: Computer Organization

Course Code: BTCS-313

Assignment No: 1

Due date of submission: 11.09.2017

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
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Question No. 1.

- a) Explain IEEE standard for floating point representation.
- b) A(7,4) hamming code is received as 1101010. Determine the correct code when even parity is there.

Question No. 2.

- a) Define digital computer generation with computer types.
- b) Explain bus architecture.



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Programme: B.Tech (CSE-Vth Sem.)

Course Name: Computer Network

Course Code: BTCS-314

Assignment No: 1

Due date of submission: 11.09.2017

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.

Question No. 1.

- a) As you know about the computer network. Explain the all features of networking and topologies.
- b) You are aware of OSI model, Explain with diagram.

Question No. 2.

- a) Explain all components which is use on physical layer (as like wires, satellites).
- b) Explain physical layer with diagram.



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Programme: B.Tech (CSE-Vth Sem.)

Course Name: OOPs with C++

Course Code: BTCS-315

Assignment No: 1

Due date of submission: 11.09.2017

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.

Question No. 1.

- a) As you are aware of data types studied in last semester, now, discuss all the data types available in C++ and highlight the differences between C and C++ that you have experienced while programming.
- b) As you are aware of arrays and its implementation on C Programming. You will learn more if you write an Algorithm and a Program in C++ for the following problem:

To input 2-D arrays of integers of the size 3X3 and print its contents in the *Matrix* form. Also, perform a *Search* operation on this Matrix.

Question No. 2.

- a) As you know the syntax and application of loops very well. You may learn more if you write and perform two examples each of the following statements:
- i) While loop
 - ii) For Loop
- b) i) Enum
- ii) Switch Case
 - iii) Conditional Statement



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Programme: B.Tech (CSE-Vth Sem.)

Course Name: Engineering and Managerial Economics

Course Code: EME-351

Assignment No: 1

Due date of submission: 11.09.2017

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.

Question No. 1.

- a) As you can define Economics according to Smith, Marshall, Robbins, Mehta & Growth centered Economists.
- b) You can easily differentiate between Micro and Macro Economics.

Question No. 2.

- a) As you are aware about demand, now discuss about its definition, types and law.
- b) You can draw a figure and define Elasticity of demand with its types & degrees.