BITT Polytechnic

Getlatu , Ranchi Jharkhand – 835217

Assignment No 1

Subject name – Operating System **Subject Code:- CSE 403**

1. Give the difference between multiprogramming and multiprocessing.
2. What is an operating system? List the typical functions of operating systems.
3. Differentiate between Batch Operating System and Time Sharing Operating System?
4. Describe the essential properties of the following operating systems Real Time and Distributed Operating System
5. What is an operating system? Explain the history of operating system?
6. Explain the architecture of operating system?

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Assignment No 1

Subject name – Data structure & algo. **Subject Code:- CSE 402**

1. Define data structure and explain different types of data structures.

2. Define algorithm. Explain different ways of analyzing algorithm.

3. What do you mean by complexity? Explain time and space complexity of an algorithm.

4. Explain the term Big'O' notation in detail.

5. Explain top down and bottom up approach.

6. What do you understand by data structure? Explain primitive and non primitive data types.

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Assignment No 1

Subject name – COMPUTER HARDWARE & PEPHERALS Subject Code:- ECE 403

1. Explain about Finite Sate Machine (FSM).
2. Explain about Instruction Set Architecture (ISA) with example.
3. Explain about Addressing Modes. Different types of Addressing modes with suitable Example.

COMPUTER WORKSHOP (CSE 408)

1. Making the Poster Or Model of any computer components.

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Assignment No 1

Subject name – DBMS **Subject Code:- CSE 404**

Chapter 1:

1) What is DBMS? What are advantage of DBMS over file processing system? Explain it.
2) Explain the responsibility of DBA.
3) Explain Data abstraction or 3- tier architecture.
4) Explain the importance of Database models.
5) What is difference between following:
   (a) File processing system and a DBMS.
   (b) Logical data independence and physical data independence.

Chapter 2:

1) Design an ER diagram for keeping track information system about a banking system database taking into account at least 6 entities.
2) Define the following terms:
   (i) primary key
   (ii)Alternate key
   (iii) Tuple
   (iv)candidate key
   (v)Attribute

3) Distinguish between strong and weak entity set.
4) Explain basic notations of ER diagram.
5) Explain codd's rule.

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Assignment No 1

Subject name – Data Communication and Computer Networking
Subject Code: - ECE 405

1. What are Analog & Digital Signals.
2. What is Data communication?
3. What are the wired communication link?
4. What is Line Configuration .
5. What are Packets ?
6. Define bandwidth.
7. Define Channel bandwidth.
8. What is full form of WDM, FDMA, CDMA.
9. What is Signal to noise ratio.
10. What is definition of multiplexing?
11. What are the Periodic & Aperiodic signals, explain it.
12. Explain the Digital to Analog converter?
13. What is the network Topology?
14. Explain the Analog to Digital converter.
15. Explain TDMA.
16. Explain CDMA.
17. What is the definition of Demultiplexing.
18. What are the Packets and message switching techniques, Explain it?
19. What is Frequency division multiplexing, explain it .
20. Explain FDMA with diagram.