

**Purbanchal University**  
**Bachelor of Computer Application BCA**  
**2012**

**Subject:** computer system concept

Time:03:00hrs

**Course no:** BCA170 co

**Full Marks:** 60

**Semester:** 1<sup>st</sup> semester

**Pass Marks:**24

**Group A**

**Answer TWO questions. 2x12=24**

1. a. explain in details the different factors that affects processing speed of personal computer (PC)  
b. explain with diagram how a CRT monitor displays an image .
2. a. explain the relational database model with the help of an example . list out its main advantage as compared to the heretical and network database models .
3. Define network topology. Describe the following network topologies with their relative advantage as compared to the hierarchical and network database models.
  1. star network topology
  2. ring network topology
  3. multi access bus network topology

**Group B**

**Answer six questions. 6x6=36**

4. What are the different bases on which you can classify a computer? Mention features of fourth generation computers.
5. Differentiate between impact and non-impact printer. Give their relative advantage and disadvantages.
6. Explain the basic services provided by the internet.
7. Define the term storage devices. Write the difference between magnetic storage and optical storage devices.
8. Define e- commerce. Discusses the importance of computer in modern business.
9. What is different types of operating system (OS) and also write the difference multiprogramming and multiprocessing operating system.
10. What is internet protocol? Differentiate between internet and extranet.
11. Mention the characteristics of algorithm. Differentiate between compiler and interpreter.

**END**