**SESSION**

**JUL/AUG 2021**

**PROGRAM**

**BACHELOR OF COMPUTER APPLICATIONS (BCA)**

**SEMESTER**

**I**

**COURSE CODE & NAME**

**DCA1101 – FUNDAMENTALS OF IT & PROGRAMMING**

**Q.1 (a) Define the term ‘Computer’?**

 **(b) Explain the organization of computer?**

A computer is a device that receives information (in the form of digitalized data) and manipulates it for some result based on a program or sequence of instructions on how the data is to be

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**Q.2 Discuss the different classifications of computer?**

Computers are classified according to their data processing speed, amount of data that they can hold and price. Generally, a computer with high processing speed and large internal storage is called a big computer.

**Q. 3 Explain Random Access Memory and Read Only Memory along with their types?**

**Random Access Memory (RAM)**

Main memory of a computer system is used to store programs and data. RAM provides temporary read/write storage while hard disks offer semipermanent storage. All programs must be run through

**Q. 4 (a) Define Software Testing.**

 **(b) Explain software testing strategy in detail.**

Software Testing is the process of executing a program or system with the intent of finding errors. Testing presents a stimulating variance for the software engineer. During earlier software engineering

**Q.5 (a) What is Operating System?**

 **(b) Discuss the different components of Operating System.**

An operating system (OS) is a platform that controls the implementation of an application program and acts as an interface between the user and computer hardware. The purpose of an OS is to provide

**Q. 6 (a) Explain Reference OSI Model.**

 **(b) How is the data transmission done in OSI model?**

The layered model that dominated data communications and networking literature before 1990 was the **Open Systems Interconnection (OSI)** model. Everyone believed that the OSI model would