

COA 101

Reg.No.

**CREDIT BASED FIRST SEMESTER B.C.A. DEGREE EXAMINATION
OCTOBER 2012**

**B.C.A
FUNDAMENTALS OF COMPUTERS**

Time: 3 Hrs

Max. Marks: 80

PART – A

1. Answer any 10 questions from the following: 10x2=20

- a.. List the four parts of a computer system.
- b. What is a Super Computer?
- c. Expand ASCII and EDCDIC.
- d. Mention any four types of standard computer parts.
- e. Explain the working of trackballs.
- f. How do touch screen systems work?
- g. What can you do with a video capture card?
- h. Differentiate between Data and Information.
- i. What is flash memory?
- j. What is a clipboard?
- k. Mention different types of operating systems.
- l. What is a database?

PART – B

Answer any TWO questions from each unit:

UNIT – I

2. a. What is a computer? Explain any two types of computers.
b. Explain the various steps involved in executing an instruction in machine cycle. **(5+5)**
3. a. Explain the different categories of computer hardware.
b. Briefly explain the 2 main categories of LCD Monitors. **(6+4)**
4. a. Explain the factors affecting the processing speed in a computer system.
b. Explain the application of computers in industry and banking. **(6+4)**

UNIT – II

5. a. Explain how a computer accepts input from the keyboard.
b. What is the purpose of alphanumeric keypad and mouse? **(5+5)**
6. a. Explain any two optical input devices.
b. Briefly explain the uses of Microscope. **(6+4)**

7. a. Explain any two commonly used printers.
b. Explain the working of a CRT monitor. (6+4)

UNIT – III

8. a. Explain different recordable optical technologies.
b. What are the purposes of formatting a magnetic disk?
c. Mention different services that an operating system provides to program. (5+2+3)
9. a. Briefly explain graphical user Interface.
b. What is the difference between object linking and object embedding? (4+4+2)
10. a. Explain the various data types that can be used in a worksheet.
b. What is the difference between flat file & relational database? (5+5)

COA 101

Reg.No.

**CREDIT BASED FIRST SEMESTER B.C.A. DEGREE EXAMINATION
OCTOBER 2013
B.C.A
FUNDAMENTALS OF COMPUTERS**

Time: 3 Hrs

Max. Marks: 80

PART – A

1. Answer any 10 questions from the following: 10x2=20
- Name the four categories of computer hardware.
 - List the four units of measure for computer memory and storage.
 - Expand ASCII and UNICODE.
 - Differentiate PDA'S and cellular phone.
 - What are the four factors to evaluate printers?
 - What is the purpose of trackball?
 - Why are most standard keyboards called 'QWERTY'?

keyboards?

- h. What is the purpose of mouse pointer?
- i. What is the difference between data and information?
- j. What is flash memory?
- k. What is the difference between object linking and object embedding?
- l. What is mail merge?

PART – B

Answer any TWO questions from each unit:

UNIT – I

- 2. a. What is a computer? Explain any two types of computer.
b. What is a Cache Memory? How does it speed up the memory retrieval process? (5+5)
- 3. a. Explain the four parts of a computer system.
b. Explain the factors affecting the processing speed of a computer system. (4+6)
- 4. a. Explain the machine cycle of CPU.
b. What is the purpose of expansion slots? (7+3)

UNIT – II

- 5. a. Write a note on CRT and flat panel monitors.
b. Differentiate between impact and non-impact printers with example. (5+5)
- 6. a. Explain any two optical input devices.
b. Briefly explain the use of microphone. (6+4)
- 7. a. What is the purpose of modifier keys and function keys?
b. Write a note on sound cards. (5+5)

UNIT – III

8. a. Explain how data is organized on a magnetic disk.
b. Explain multitasking and single tasking operating system. (6+4)
9. a. Explain briefly the spreadsheet interface.
b. Write any three functions of operating system. (7+3)
10. a. Explain the formatting features of word processor.
b. Explain different recordable optical technologies. (5+5)

COA 101.1

Reg.No.

.....

CREDIT BASED FIRST SEMESTER B.C.A. DEGREE EXAMINATION
OCTOBER 2014

B.C.A
FUNDAMENTALS OF COMPUTERS

Time: 3 Hrs

Max. Marks: 80

PART – A

1. Answer any 10 questions from the following: 10x2=20
- Write the basic components of a computer system.
 - Define Bus.
 - Differentiate between RAM and ROM.
 - What do you mean by computer organization?
 - What is a scanner?
 - Define Dot Pitch.
 - Differentiate between Hard Copy and Soft Copy.
 - Define Data Transfer Rate.

- i. Write the functions of a Loader.
- j. What is a freeware?
- k. List the types of snips in Snipping Tool.
- l. What is the purpose of FTP?

PART – B

Answer any TWO questions from each unit:

UNIT – I

- 2. a. Explain the applications of a computer.
- b. What are the types of memory available in the computer system? How are they organized in a hierarchy? **(5+5)**
- 3. a. What are Registers? Explain their types.
- b. Write a note on Micro Computers. **(6+4)**
- 4. a. Explain the various units of the System Bus.
- b. Explain the functions of DMA. **(5+5)**

UNIT – II

- 5. a. Explain the storage organization in Magnetic Tape.
- b. What is a memory stick? Explain its types? **(5+5)**
- 6. a. Differentiate between LCD and CRT monitors.
- b. Explain the different types of optical disks. **(5+5)**
- 7. a. Explain the working principle of Mouse.
- b. Explain any five types of Operating System. **(5+5)**

UNIT – III

- 8. a. Explain the features of Windows XP.
- b. Explain Windows 7 accessories. **(5+5)**
- 9. a. Explain the features of a good programming language.

- b. Write a note on Aero Themes. (7+3)
10. a. Explain the MS Office 2007 Interface.
b. Explain any two applications of Internet. (5+5)

COA 101.1

Reg.No.

.....

CREDIT BASED FIRST SEMESTER B.C.A. DEGREE EXAMINATION

OCTOBER 2015

B.C.A

FUNDAMENTALS OF COMPUTERS

Time: 3 Hrs

Max. Marks: 80

PART – A

1. Answer any 10 questions from the following: 10x2=20
- Write the basic components of a computer system.
 - Expand: i) PDA ii) USB
 - What are the functions of program counter and Instruction Register?
 - 1 byte = bits and 1 kilobyte = Bytes.
 - Differentiate between SRAM and DRAM.
 - Write any one advantage and disadvantage of optical disks.
 - What is a pointing device? Name any two pointing devices available.
 - What do you mean by hard copy and soft copy?
 - What is an Aero theme?
 - Write the flowchart symbols for i) Processing ii) Decision
 - What is system software? Give any 2 examples.

1. What is Browser and Website?

PART – B

Answer any TWO full questions from each unit:

UNIT – I

2. a. Explain any six characteristics of computers.
b. Write a note on i) Mini computer ii) Super Computer **(6+4)**
3. a. Explain the various units of the system bus.
b. Explain how Processor to Memory Communication takes place. **(6+4)**
4. a. Explain the three fundamental types of memory in a computer system.
b. Write a note on i) PROM ii) EEPROM **(6+4)**

UNIT – II

5. a. Explain the storage organization of Magnetic Disks.
b. Briefly explain i) Memory stick ii) Blu-ray Disk **(6+4)**
6. a. Explain any three input devices.
b. Differentiate between LCD and CRT monitors. **(6+4)**
7. a. Explain any five types of Operating Systems.
b. Write a note on i) Dot Matrix Printers ii) Inkjet Printers. **(5+5)**

UNIT – III

8. a. Explain any five features of Windows XP.
b. Briefly explain i) Gadgets ii) Taskbar **(5+5)**
9. a. Write a note on Machine Language.
b. Explain any six features of a good programming language. **(4+6)**
10. a. Explain the different basic forms of software piracy.

b. Briefly explain File Transfer Protocol and Video conferencing.

(6+4)

**CREDIT BASED FIRST SEMESTER B.C.A. DEGREE EXAMINATION
OCTOBER 2016**

**B.C.A
FUNDAMENTALS OF COMPUTERS**

Time: 3 Hrs.

Max. Marks: 80

PART – A

1. Answer any TEN questions from the following: 10×2=20
- a. Which are the two common designs for desktop computers?
 - b. List two common output devices?
 - c. What is the purpose of the START key in a Keyboard?
 - d. What does an image scanner do?
 - e. List two basic types of monitors used with PCs.
 - f. What is the difference between RAM and ROM?
 - g. What is the difference between L1 and L2 cache?
 - h. List four types of magnetic storage media commonly used with PCs.
 - i. What is a dialog box?
 - j. List four ways you can display a slide show to an audience?
 - k. What is a form?
 - l. When should a BLOB be used?

PART – B

Answer any TWO full questions from each unit:

UNIT – I

2.
 - a. Write the applications of computers in different fields?
 - b. List and explain four text code systems.
 - c. Write a note on CPU. (4+4+2)
3.
 - a. Explain the parts of the computer system.
 - b. Compare primary storage devices with secondary storage devices.
 - c. Write a note on machine cycle. (4+4+2)
4.
 - a. What are the factors affecting the processing speed? Explain.
 - b. What are the advantages of parallel processing? (7+3)

UNIT – II

5.
 - a. Write a note on
 - i) modifier keys
 - ii) numeric key pad
 - b. What are the factors considered while comparing monitors? (4+6)

- 6. a. Explain the different categories of mouse.
- b. Write a note on video cards.
- c. What is the difference between impact printers and nonimpact printers? (5+3+2)

- 7. a. Write a note on i) bar code reader ii) photo printers
- b. Compare CRT monitors with LCD monitors. (6+4)

UNIT – III

- 8. a. How is data organized on a magnetic disk? Explain.
- b. Write a short note on smart cards.
- c. Compare GVI with command line interface. (5+2+3)

- 9. a. List and explain data management functions.
- b. List and explain any two utility softwares. (6+4)

- 10. a. What are the various components you find in GVI?
- b. How can you format the text using word processing? (5+5)

CREDIT BASED FIRST SEMESTER B.C.A. DEGREE EXAMINATION

OCTOBER 2016

B.C.A

FUNDAMENTALS OF COMPUTERS

Time: 3 Hrs.

Max. Marks: 80

PART – A

1. Answer any TEN questions from the following:

10×2=20

- a. Define the terms versatility and reliability with respect to a computer.
- b. What are the functions of Program Counter and Instruction Register?
- c. What is Cache Memory? Why is it required?
- d. What is system bus? Name its three logical units.
- e. Differentiate SRAM with DRAM.
- f. What is seek time?
- g. What are pointing devices? Give two examples.
- h. Differentiate impact printer with non-impact printers.
- i. Differentiate assembly language with High level language.
- j. What is System Software? Give an example.
- k. What is mail merging?
- l. What is an algorithm?

PART – B

Answer any TWO full questions from each unit:

UNIT – I

2. a. List the classification of computers and explain each.
b. Explain any five applications of computer. (5+5)
3. a. Give block diagram of computer and explain each unit.
b. Explain different types of ROM. (5+5)
4. a. Explain various types of CPU registers.
b. Explain fetch and execution cycle of CPU. (5+5)

UNIT – II

5. a. Explain read/write operation of Hard Disk.
b. Write a note on Memory Stick. (5+5)
6. a. What is Optical Disk? Explain storage organization of optical disk.
b. Write a note on
i) Joy Stick
ii) Touch Screen (4+6)

7. a. Explain any five types of operating systems.
b. Explain any two output devices. (5+5)

UNIT – III

8. a. Explain the program development life cycle.
b. Write a note on types of programming languages. (6+4)

9. a. Explain any five system utilities.
b. Explain any five features of MS Word 2007. (5+5)

10. a. Explain the following terms.
i) WWW ii) Browser iii) Hypertext
b. Explain any two applications of internet. (6+4)
