



FIRST TERM FIRST YEAR (1ST TERM) B.E.(ELECTRICAL)
REGULAR EXAMINATION 2009 OF 09-BATCH.

COMPUTER APPLICATION & E-LEARNING

Dated: 15-05-2009

Time Allowed: 03 Hours.

Max: Marks-80.

NOTE: ATTEMPT ANY FIVE QUESTIONS.

- | <u>Q.No.</u> | | <u>Marks</u> |
|--------------|--|--------------|
| 01 (a) | Define the four parts of a computer system and describe the role of virtual memory in computer system? | (08) |
| (b) | What is cache memory? Explain the primary cache and secondary cache? | (08) |
| 02 (a) | How data is process in a computer system. Write the steps of information process cycle? | (08) |
| (b) | Differentiate between application software and system software give examples? | (08) |
| 03 (a) | What do you know about high level languages? How high level language differs from low level language? | (05) |
| (b) | With the aid of diagram explain the working of CPU. Also define the parts of CPU and Registers. | (11) |
| 04. (a) | Define and differentiate between Primary storage and Secondary storage devices. | (08) |
| (b) | What is an input and output devices, Describe the major I/O devices used in modern computers? | (08) |
| 05. (a) | How many different data types C++ Programming language supports? Describe each type in detail. | (08) |
| (b) | Name several arithmetic and relational operators, and explain their meaning. | (04) |
| (c) | Identify the errors of following program and rewrite it. | (04) |

```
void main();
{
cout<<"Welcome to C++ .... "<<endl

int a == 23 ;

char ch = A ;

cout<<"the value of a is"<<a
cout<<"the value of ch is"<<a
getche();
}}
```

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06. (a) What is a loop? Define the types of loops in C++ and write syntax of while and do-while loop. (08)

(b) Write a program that take input number from a user and print a counting table in while loop. (08)

Example:

Enter any number 5

5	*	1	=	5
.
.
5	*	10	=	50

07. (a) What is the syntax of switch statement? Explain the basic operation of switch statement. (05)

(b) Create a user defined function called odd() that display the first ten odd numbers. (06)

(c) Write a C++ Program that accepts the value of radius through keyboard and calculates the area and circumference of the circle. (05)

08. Write short note any five of the following. (16)

- | | |
|----------------------------|---------------|
| (i) Printer | (ii) Scanner |
| (iii) User define function | (iv) Array |
| (v) RAM/ROM | (vi) Internet |
| (vii) Search Engines | |

-----THE END-----

FIRST TERM FIRST YEAR (1ST TERM) B.E.(ELECTRICAL) REGULAR
EXAMINATION 2008 OF 08-BATCH.

INTRODUCTION TO COMPUTING

Dated: 16-05-2008.

Time Allowed: 03 Hours.

Max.Marks-80.

NOTE. ATTEMPT ANY FIVE QUESTIONS.

Q.No.
Marks

- 1 On PC “**System unit**”, there are serial and parallel ports. Draw the pin diagrams of these ports and describe the function of each pin.
[16]
- 2 (a) What do you know about computers? Discuss major advantages of computers.
[08]
(b) What do you mean by word "memory" used in computer terms. Enlist types of memories [08]
and define any two types.
- 3 (a) Name and differentiate the two main categories of computer software?
[08]
(b) What is the difference between data and information?
[08]
- 4 (a) How CPU, RAM, ROM, and Input/Output devices are to be organized through Address, Control and Data buses. [Draw block diagram]
[06]
(b) Describe the function of internal components of the CPU.
[10]
- 5 (a) What is loop? Define three different types of loops and write syntax.
[08]
(b) Write a C++ program to display “**SALAM PAKISTAN**” with white background and green foreground color at the center of monitor.
[08]
- 6 (a) Define **if** and **if-else** condition. Write the syntax of **if-else** and draw its **flow chart**.
[08]
(b) Write a program to get input number from a user and print the number in even or odd
[08]
- 7 (a) Develop a computer program to generate the following series.
+1 -2 +3 -4 +5 -6 +7 -8 +9 -10
[06]
(b) 2 4 6 8 10 12 14 16 18 20
[05]
(c) Write the program to print the following pattern.
[05]

*

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(- 2 -)

- 8 Write an **algorithm** to analyze Ohm's law to calculate ten current values for the following voltage and resistance values. Write also C++ Program.
[16]

Voltage (Volts)	100,110,120,130,140,150,160,170
Resistance (K-ohms)	1

-----THE END-----



**FIRST TERM FIRST YEAR (1ST TERM) B.E.(ELECTRICAL) FOR 07-BATCH
REGULAR EXAMINATION 2007.**

Dated: 18-05-2007.

Time Allowed: 03 Hours.

Max.Marks-80.

NOTE. ATTEMPT ANY FIVE QUESTIONS. ALL CARRY EQUAL MARKS.
DRAW NEAT AND CLEAN DIAGRAMS.

Q.No.

- 01 (a) Draw and explain in brief the block diagram of a computer system illustrated with all the busses.
(b) What is Arithmetic Logic Unit.
(c) What is **Flash** memory.
- 02 (a) Describe information, data alongwith their various types.
(b) Describe the factors that determine the speed of computer.
(c) Write the output of the following program code.
cout << (3 && 5);
cout << (3 & 5);
cout << (27 % 4 % 2 * 5 + 4 - 2 << 3);
cout << (3 || 5);
cout << ((3 | 5) >> 2);
cout << (char) 65;
cout << (3 && 4) || (3 | 1);
cout << ! (10 || 5);
- 03 (a) What is Computer Software? Describe its types.
(b) **MS-Excel** is an electronic ledger type software. Discuss.
(c) Explain the term **FILE** and its types.
- 04 (a) Write a program which displays the following and prompts the user to choose his option to analyze the parameters of an Ohm's Law
This program calculates:
A] current
V] voltage
R] resistance
P] power
Input ur choice:
(b) Draw the memory allocation map of the following.
(i) **int row** (ii) **int col** (iii) **int Voltage [5]** (iv) **float Resistance [4]**
(v) **Current [5][4]**

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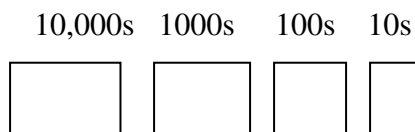
05. Distinguish between the following.

- (a) Compiler and Interpreter
- (b) MS-DOS and MS-Windows
- (c) ROM and RAM
- (d) Text mode and Graphic mode

- 06 (a) Using nested **for-loops**, write a program which displays the **truth table**, for **3-input OR logic** gate.
- (b) For following data of voltage and resistance it is required to calculate current and display it in **array** format. Write a **C++** program code.

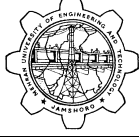
Voltage	120, 130, 140, 150, 160, 170, 180, 190, 210, 230, 240, 250, 260
Resistance	200, 300, 400, 500, 600

- 07 (a) Write a **C++** program for **digital odometer** which displays the data at the centre of Computer screen with the delay of 10 milliseconds.



- (b) Describe how data is organized on CD-ROM.
- 08 Write the short notes on any **FOUR** of the following
- (i) Evolution of Programming languages
 - (ii) Memory hierarchy of computer systems
 - (iii) MODEM
 - (iv) Flow Chart
 - (v) Parity bit
 - (vi) ASCII code
 - (vii) Pseudo code

-----THE END-----



FIRST TERM FIRST YEAR (1ST TERM) 09-BATCH OF B.E (ELECTRICAL) REGULAR PRACTICAL EXAMINATION 2009

SUBJECT:-	COMPUTER APPLICATION & E-LEARNING	ID. NO.	
Dated: 25 – 05 – 2009		Time Allowed: 30 Minutes	Max. Marks:- 15
Marks Obtained:-		Signature {	1. Internal Examiner -----
In Words -----			2. External Examiner -----

Q. No. 01 **Fill in the blanks**

- _____ is the brain of computer system
- BIOS stands for _____
- Data is stored in computer as _____
- The char data type occupies _____ bytes of memory
- The component of the CPU in which calculations and logical operations are carried out is _____

Q. No. 02 **Tick mark the correct choice of the following**

- The main components of computer are
(a) Tape, I/O, Floppy disk (b) CPU, I/O, Memory (c) CPU, I/O, Tape (d) I/O, Printer, Mouse
- _____ computer measures the continuous types of data, use the physical quantities to represent data such as volume, pressure temperature, distance and velocity.
(a) Digital (b) Analog (c) Hybrid (d) None of them
- Information on disks is divided into _____
(a) Tracks (b) Sectors (c) Tracks and Sectors (d) None of them
- Main memory is also known as _____
(a) Secondary memory (b) Primary memory (c) Auxiliary memory (d) virtual memory
- Which is secondary storage device
(a) CPU (b) RAM (c) ROM (d) Hard disk
- In C++ integer data type stores _____ bytes.
(a) 2 bytes (b) 4 bytes (c) 6 bytes (d) 8 bytes
- Which one of the following is not a valid memory unit
(a) MB (b) KB (c) Byte (d) XB
- Which of the following storage can store a large amount of data
(a) Floppy disk (b) Hard disk (c) Compact Disk (d) Zip disk
- Programs stored in ROM are called
(a) Hardware (b) Firmware (c) Software (d) None of these
- Which of the following is the product of data processing?
(a) Word processing (b) Spreadsheet (c) DOS (d) Computer Graphics

(- 2 -)

Q. No. 03 Write true or false.

1. The most power full computer is mini computer ()
2. Now impact printers work by striking a form through on inked ribbon on the paper ()
3. ROM is a volatile memory ()
4. RAM is not a volatile memory ()
5. Keyboard is the key component of GUI ()

Q. No. 04 Define the following.

(i) switch statement

(ii) if ELSE statement

(iii) array

(iv) user define function

(v) while loop

Q. No. 05 Write the operators in C++.

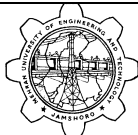
(i) Arithmetic operators

(ii) Arithmetic assignment operators

(iv) Relational operators

(v) Increment and decrement operators

THE END



1ST TERM 1ST YEAR (1ST TERM) 08-BATCH OF B.E (ELECTRICAL) REGULAR PRACTICAL EXAMINATION 2007

SUBJECT:-	INTRODUCTION TO COMPUTING	ID.NO.	
Dated: 25 – 05 – 2008		Time Allowed: 30 Minutes	Max. Marks:- 15
Marks Obtained:-		Signature {	1. Internal Examiner -----
In Words -----			2. External Examiner -----

Q. No. 01. Fill in the blanks

- (i) A computer converts data into _____
- (ii) The two types of microcomputer software are _____ and _____
- (iii) Microcomputer equipment is called _____
- (iv) The three primary hardware elements of a typical microcomputer system are _____, _____ and _____
- (v) The CPU may be thought of as the computer's _____

Q. No. 02. Tick mark (✓) the correct choice of the following

- (i) The three main components of a computer are.
(a) Tape, I/O, floppy disk (b) CPU, I/O, memory (c) CPU, I/O, tape (d) I/O, Printer, mouse
- (ii) Which of the following storage is volatile?
(a) Semiconductor Memory (b) Floppy disk (c) CD-ROM (d) Core memory
- (iii) Which of the following is not an example of application software?
(a) Word processing (b) Spreadsheet (c) DOS (d) Computer graphics
- (iv) Which of the following is the product of data processing?
(a) Data (b) Information (c) Software program (d) hard copy output
- (v) Which of the following storage devices can be carried around?
(a) Registers (b) Core memory (c) Flash memory (d) hard disk
- (vi) A byte equals.
(a) 4 bits (b) 8 bits (c) 16 bits (d) 32 bits
- (vii) A kilobytes, also referred to as K, is equal to.
(a) 1000 bytes (b) 1024 bytes (c) 2048 bytes (d) 512 bytes
- (viii) A relational operator.
(a) Compares two operands and yield a Boolean result (b) Assign one operand to another
(c) Logically combines two operands (d) all of the above

- (ix) In c++ integer data type store _____ bytes.
(a) 2 bytes (b) 4 bytes (c) 6 bytes (d) 8 bytes
- (x) _____ is converts source code into machine code.
(a) Programmer (b) System Engineer (c) Compiler (d) Technician

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(- 2 -)

Q.03. Write (T) or false (F)

- (i) The most powerful computer is the super computer.
()
- (ii) RAM is a secondary storage device.
()
- (iii) A computer's hardware devices fall into one of four categories.
()
- (iv) System software is any program that controls the computer's hardware.
()
- (v) Application software tells the computer how to accomplish specific tasks.
()

Q.04. Define the following

- (i) if

- (ii) switch

- (iii) for – loop

- (iii) main function

- (iv) clrscr()

(v) << operator

Q. No. 05. Write the following syntax in c++.

(i) if – else

(ii) for - loop

(iii) while loop

(vi) switch

(v) do while loop

THE END